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SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8066	38434	A	8121	1	1050	MLIMTFHGLLPCMQMACKWQ LRVLVAGIRCDSTCPPGRWGP NCSVSCSCENGSGCSPKDG SCECAPGFRGPLCQRTVHILY PRGCGIRDVGESGNRKQKAVE QYREHWTVSPEVQCSASHFSS VRPKSACPPGFWGPACFHACS CHNGASCSAEDGACHCTPGW TGLFCTQRCAPGTFGYGCCQ KCECMNNS TCDHVTGTCTC SPGFKGIRCDQGIMLLL/CP HCGAAGPICLASAA AERE GPRPGSPCLLHTCHEDDQ HRLPLSGANSIPTYR*SGR PDSPLRTEALILPQ\CQKF SGSQGEVCAVSCAAGTYGP NCSICSNNGGTCSPVDG SCTCKEGRHICLQ
8067	38435	A	8122	3	732	IRCDSTCPPGRWGPNC SVSCSENGGSCSPEDG SCECAPGFRGPLCQRI CPPGFYGHCCAQCPLC VHSSRPCHHIIIGICE CLPGFSGAF CNQG\QAP TGNPSPGWYRS*EM TDPRCSCR/CLSGEST RHTSPVL LGTDASETQV IGFVNLAQFLIIC PRKLHYKAQNSKKSNG SDASSDWKDWGIWDRE SCEELCPPGSHGAHCE LRCPCQNGGTCHHIT GECACPPGWTVGA/H C*ALCCP
8068	38436	A	8123	77	864	PAVPEL*VFQAKPERK SRYWQLHFPPHSSSPT SWRKSLEPMYRCTCP PLTPYGCTCPPLSPYR RTCPPLTMYRRICPPL TPYRCTCPPLTPYRM FSSPLHKEITSAQRS PEPS SRPHSSKAAAL R*QPRIMEKQRIYGP SPTSVQPASPPCLDD PRKKAERPDRATGKR HLPETSL/YA ELVRR AVENPEDSEAPAPAA LSPASEHRTDPIQET KKARKSSDNDGSTPLA QTPTRRSSQWPRLG QFQQQEDDSSGLYSTG

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8069	38437	A	8124	314	1188	KHFLNFCLPYMILNKYRNQYCT FNDDIQGNKIFTAYGSITCLKLV HNCIKKIWLVDKGLIVKVRIC HF*PE*R*LCHSGWPSNLEAIVQ EIKPTALIGKHFLLSLLPYPLF*P DCFFNERPIIFALSNPSTKAEC AEQCYKITKVK*NYNRYFNNQI FIHYREATLYPGQGNNSYVFP VALGVVACGLRQITDNIFLTTA EVL*NPLSLPRV*NTKCAQPRN TIRDVSLKIAEKVKPLLFLKHYF SFLFLNMQEA FVRSQMYSTD YDQILPD\CYSWPPEEVQKIQQ
8070	38438	A	8125	1	1115	SPAQVMFQCLWKSCGKVLSTA SAMQRHIRLVHLGRQAEPEQSD GEEDFYYTELDVGVDTLTDGLS SLTPVSPTAS/IAACLPPGAAR AAGAPSPA*SPAAACPAPAP CPEHRC*PPVLSQ*PCLPRAA*R PPAWSRMPRRLEPAHPPCPPGS ESS*GSPAATRISAGM*YGMEA PGPPGAQPAAGRKPAPVPLK SGSFKNILPPSPPPPGPGAET ARRNKPQGAGPSAAGSAFNW VGV PDLTLEFPFPPGPGEGSPPT QS/SPLKKPSFLH*SPNPHLSPF TPKGPGGSHPSRLSARRFIKGV MGPALGGQSRCTLRGVGEGTP PLALNSTALGPWGC FYPCFLK LQVSHVWAATRRREKLKI
8071	38439	A	8126	116	333	KLRDRCLSH*K*NGASPPRPTN VSIMRPSLV/SLVHHSGL*FPQM LRALS*LRVFGVAVSSP*MVPL NPCIIISH
8072	38440	A	8127	5	829	KPSPQPPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG /LFRPRDFYLRSPRSYGTRP*KSP QSSPRGSARPDP/GPA\PPPEPPV KRRARGVLESSRHAAPRRVFHL GREREQSQEGPAWPKRGRPAPS PQRTATWRPAAGGGK*GSAAT S*ARAGPARRGKRRG*EPREN RAGRPATRGRPPGRRCCPPA*S PRPSKRSSPLCSRPSPWPTRPS KSSYGASLARTTTTLQWKFSVNL IRKQIRDAQ

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8073	38441	A	8128	5	844	KPSPQPPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG RFAPGTFTCGAPRSYGTRP*KSP QSSPRGSARPD\GPAASARATR EAQSARGLGELAAAGSQAGLP LGKGARTEPGGSS/CSQGPAWP KRGRPAPSPQRTATWRPAAGG GK*GSAATS*ARAGPARRGKRR G*EPRENRRAGRPATRGRPPGR RCCPPA*SPRPSKRSSPLCSPRPS WPPTRPSKSSYGASLARTTTLQ WKFSMNLIRKQIRDAQ
8074	38442	A	8129	795	914	RGIRLASEMYPLTCFWRS*L YR RGLSARIALVNCRRNAL
8075	38443	A	8130	4073	5350	YSLKSGSVTPLALFFLLKIDLA MQALFWFHVNFKVVPNSVKK AIGSLMGMTLNL*ITLGSM AIFT ILILPTHEHGMFFHLFVSSFISLS NGL*FSLKRSFTSLVSWIPRYFIL FEAIVNGSSLMIWVSVCLLLVY KNACDFCTLILYPKTLLKLLISL RRFWA\GQWGFLDIQSCHVQTG TI*LPLFLIEYPLFPALLPNC PGQN FQHYVE*QW*ERTSLSLPVFKG NTSSFCPFSMILAVGLS*IALIIL RYVPSIPNLLRVFSMKGC*ILSK AFSASIE\YNHVVFVFGSVYMQ FLLVPLVEFGCESIWSWTFFGW *AIDYCHNFRSCYWSIQRFNFFL V*S\GRVYVLRNLSISSRFSSLFA *RCL*YSLMVVCISVGLVVISPL SFFIASI*FLSLFFFTSLASSLSILL IFSKNQLLDSLIF

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8076	38444	A	8131	1	1715	MDGISGGKRALRERHSKSKAL GRCFPWTNITPPALPGITNDTTI QQGISGLIDSLNARDISVKIFEDF AQS WY WIL VAL G VAL VLSLLFI LLLRLVAGPLVLVLILGVLGVL AYGIYYCWEEYRVL RDKGASIS QLGFTTNLSAYQSVQETWLAA LIVLAVLEAILLVLIFLRQRIRI AIALKEASKAVGQMMSTMFY PLVTFVLLLCIAYWAMTALYL ATSGQPQYVLWASNISPGCEK VPIN\SCNPTAHLVNSSCPGLM CVFQGYSSKGLIQRSVFNLQIY GVLGLFWTLNWVLALGQCVL AGAFASFYWAFHKPQDIPTFPLI SAFIRTLRYHTGSLAFGALITL VQIARVILEYIDHKLRGVQNPV ARCIMC*FKCCLWCLEKFIKFL NRNAYIMIAIYG\KNFCVSAKN AFMLLMRNIVRVVLDKVTDL LLFFGKLLVGGVGVLSFFFFS GRIPGLGKDFKSPHLNYYWLPI MRNPITPTGHVFQTSILGAYVIA SGFFSVFGHVCGRSFLCFLGK DLGSVNNGFPGDRPYY/MVPRA FLKILG\KKNE\APPDNKKRKK
8077	38445	A	8132	1	208	GTRASSPAPCPSSSAPAHSFEAC CCRMSLWGSCGGSGDGSSACG SGWNLSMAGTSCSSPAMCPSR APS*RSASRPRTWRATTSAA WAPRRCWCGWA*SAT*PSSTTT ISSSPHCGWPCASCASAAWL SSTWATASVAGSCWGPIM*SSA PAHSFEACCCRMSLWGSCGGS GDGSSACGSGWNLSMAGTSCS SPAMCPSRAP

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8078	38446	A	8133	28	1956	SRAARERGRSDSGGRSDPGCPA VPACVPRSRPSMTAPAGPRGSE TERFLTPNPGYGTQAGPSPAPPT PPEE/VRPSPSS/TNTFS*VPATSF EPRAASPAS*CCKWSRSWWSR CSSSCLGSVISWL*HSGKRTPSP SDTSSCWATRTERMTSPSQPTRG SSCTRPSSMLWT/SAGGRAGAG GQAGAVPGVA/WTCHWAGLLS ASGTTTEATWTRPTTHLTIRW WLLTASRWIPPSGPLRPPATISP SWKAAPVTRTSRSNSTSTACSL EGGPGVSTWQGTALGAGRDP KTPLTLTRASCLGWSMSPSTSG *RPLTSRASSIMRSRTAIPSAS*S RLTTKHTVGGSPSAWRPRTSR SVSTPVSSSTGGQQLPGSCLTW WSYSPAPCTSSS\SPLTPSRLPAA EQSLWGSCGGSGDGSSACGSG WNLSMAGTSCFVTSVDLHHLG HHS*RSASRPRTWRSLRRFAAS SWAPRRWCWGA*SAT*PSSTT TISAHSPWCLSACSRSSMGTTT L*RSPPCRRSRAAAWCGSSPS STFTPSSSLFILHGAQPLHRAHH RAPTYTIKHSRRRRRKRRASCR PYIAQCPGQPHLRQVPPRERAR PIAILLLLRKGPLGGAFAAGELI RPDCRWTVGPGLQRPPPTPLIY L
8079	38447	A	8134	1	2994	MQRPCLCVEPMRLCFDSFLLLV NQGEEEGVVPCLENGRAAA DPGPQDQDCLLPTLTPSLSGDE APDRTQSSGDPRERCGYLSVTC EEGDNRFAAFCLCGSWRLNHG HADWCDQRRSQISNRLPASLGII VGTRGSRHLLAALRGVKEDRQ TKGCVQTPASLSPWLPGLSSET RAQKTCSVLLIDYATFLKLAND DDDGCLDCLQPGVRTAWASSQ HGIRAPRKSVQGSASSPSLRTW ALTCTQNWFCVLLVK
8080	38448	A	8135	215	418	

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8081	38449	A	8136	767	1458	WREHLTKFNVWGKQHLESLSNS QQKNMRCPVRSQTRPPTDVKP VSRSGRREDRRAAGGEGGADR QGPGTARARAPGSPQRGG*GR NLR\QAGPPGKHGRGIPPPQTRG RSRGAPPGTPEGPRHPPRPASRA PGPATGAPKRPPQPTQRQGHIA RDSRPSSDPVPLRETGAPPPWD A\SQGQAARPRATQTPSSAPVA TRQSGRRADSRRRGVTRRTER CAQPSLAVSRVPTR
8082	38450	A	8137	3	424	
8083	38451	A	8138	1	813	MVQKELEEEGRKSTPQSWGREN MEKALNSSLKASLGSGGVMI CASVKALLTVVIKVLGRLL\ES LFLLLQTQTAL*QTL/RHTNRNI SHQYQDEIILDGSDLPRMSPRR KYEPPVFPGRKTYKISIRGKAN KKCEEARQEKEAMVMKYVRG EKESLDLRKEKETLEKKLRDAN KELEKNTNLIKQLSQEKGRLLHQ LYETKEGETTRLIREIDKLKEDI NSHVIKVKWAQNKLKAEMDS HKSFKNPLVRCNFAATFGYYK KLIPKIKTGSSH
8084	38452	A	8139	3	808	NVRVEPTDSSFMEIEFAQKGA FDAYVAVGGGSTMDTCKA\AN LYASSPHSDFLDYVSAPIGKKG PVSVPKPLIAVPTTSGTGSETT GVAIFDYEHLKVKIGITSRAIKP TLGLIDPLHTLHMPARVVANS FDVLCHALESYTTLPHYHLRSPC PSNPITRPAYQG\RNPIWDIYGYS TRWGFVG*VS*RAVQEIPMDL *KARSHMHLASAFAGIGFGNA GVHLCHGMSYPISGLVKMYKA KDYNDVHPLVPHGLSVVLTSP AVFTFT

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8085	38453	A	8140	2	1154	IDPLHTLHMPARVVANSFGDVL CHALESYTTLPYHLRSPCPSNPI TRPAYQGSNPISDIWAIHALRIV AKYLKRAVNSTDK*RRRMSLR APSWEWSPSRGPARGCLPRRFY IT*GS*QRYLLWPLLETVDEKY VSLQFSFRROGVV*ITCLIFLPT *HFFFFHHIFP*GSSLFCRNCQC* CVIVRYLYHSQGWQKSR*S*RQ GLIWHLGKCFLLGIGFGKCWVF ICGHGNV/SYPISGFRWKDVIKG KGIYNVGIHPTGWPPWAFSVVP HVPQRCFTFHGPRCFPERTPWR WQEILGADTRTAQ/RSQDAGLV LADTLRKFLFRSG/IVDDGLAA VGYSKADIPALVKGTLP/QR VTSFAPRPQSEEDLAALFEASN ETVLNVHLN
8086	38454	A	8141	2	990	WENWISIC*RMKL/DPYFSPYTK IKSKWIKDINVKPQTMKLLQEN IRETLQDIGLGEDFSQAQATKA KVDKLDHVKFNCTAKETIN KVKRKPKEWEKILIFADYPSDK GLITRILFIDHSWVFLGEGNLAG SSDNSGGKAWKHLLPLLASRCS GTHSNLRAKLRLSQGTVAWTP VLKREGEKSCGPSESPDLGAPQ ARDVTPCLGICSSWLLQASGHH HIPWCQLWKLFFVYLVQLQPH REVALVPAPGAAHPTTASVPVC AQWLDPMVIHSHTLCCSEPDSP LAGMGFRPVAQAKHNPARGPSG WNESSRPEQNLDKGATSHRGF WLAR
8087	38455	A	8142	1	196	GQYPWPLETNPRFLRE*TLPKS LQKSLL*DSPVPE*SLCGTCQQA RSLSEEVDESSISQVCCPT
8088	38456	A	8143	3	413	ITLGKDCIMHGYML/KLGNPFL TQWQRRYFTLFPKNI*WRRRGE S\RQNLLTMEQILSVEETQIKDK KCILFRIKGGKQFVLQCESDPEF VQWKKEINETFKEAQRLLRA PKFLNKPRSGTVELPKPSLCHR NSNGL

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8089	38457	A	8144	705	1983	EIKVDSSLLKSFLDLMNGKQNL ENLNALKDFAMMLNLSYATEII LGLEHMHNRFFVYRDLKVRTI DRLILHSRYCVNGPLEDKVTEK DFPGNPEIKPS\GKWLGCPS*KS PTLSQRGLMTLPCQTLGSG*LSF PE/VLDLP*WTNAHFADWFSLG CMLFKLLRG*VEMHPSSAVLM AAGAWMKTTVVRGFKTVFLSV W*LSCFIPSKRDVSKRLGCHGG G*AIVPAFRYLYQKSKIVILNFQ YPPPLIPPRGEVNAADAFDIGSF DEEDTKGIKVHMCCHFLFYFYF WM/VMISVGKQEVTTETVYEAV NADTDKIEARKRAKNKQLGHE EGKIAHVSQNISNAVNFQNFY LTQWQRRYFYLFNRLWRGE GESRVSLRQPHRACFPVRTMAY GYWLLRRAPKFLNKPRSGTVE LPKPSLCHRNSNGL
8090	38458	B	8145	156	281	
8091	38459	A	8146	2	181	VWCCSRTATLRTRNCARRRCS RGSRTWKRSGRSSRRRAH/SQ YDLERLRAAQQLEREQE
8092	38460	A	8147	3	670	ETGLKNEGRVLVRHSAWCPLL WGREGSRSSLSSWPELQGSPLC ASQGVVLQQDSYIEDQKLVLSE RALTRSLSRPSSLIEQEKQRSLE KQRQDLANLQKQQAQYLEEKR RREREWEDRERELRDGRPSWP SARRRCSRGSRTWKRSGRSSR RAH/SQYDLERLRAAQQLER EQEQLRREAERLSQRQTERDL CQVMGLPAESNLMMILIKTPCV LSKVRK
8093	38461	B	8148	47	699	
8094	38462	A	8149	1	242	MNRGGFAVKILALLDALSTVCS QRVQKAKKQQHLQNKEHFKA LLKQKEKLKQQLR/KKLF*IQ GIRCPQATPHHGQCSL

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8095	38463	A	8150	3	929	ASSCVVRAVPPG/SGVWGFRCG LCGPDCESGLLISGSRMFAGPQ G/PPGAGTAVTLAAGEEGLES STAQHSGSLCSEEPPIVPRRHA WQKSYSRNWLPPARPRPALA MSSDTRGQAQLSPSWQLEKKG LSSSTAQRGCRAALQGRAASARR \\QRGKANPTAGTGWLR LAPGLP LLCPQTPGGRHSCHPPG/K/PGK EGLEQFYSSARLQGFAGKSRQV PDVTRGKANPTAGTGWLR/HR GPRGGEACAMAVRGPRSHEQR CPWSAGADSVS*GHCEGTDGR VASGACLQVDSRGSAGQNLPL DPEHWHVFCDFP
8096	38464	A	8151	2	1749	WVQGASLCVRASRAPLPLARP* VQGAELTHPWGPAAHP*TRNQ KPALGSSGPHSPH\GNPQTPTQA GQP*PHTARHGVPQEHGRGQR GPHLHKTETPQEATP*EVGSIAT EQAWLPHLCL*RPPPFHQGLFP RGPCMEGAQQRVEGSSSAQGT QVCMGPKTAGDWDGPWLVCW FH*GEAAARILRPLGL\GLSGHP LWPQGGGQMTVGYGGASEAC GAGELLMRRAPPQSPGKARGL PA/HYWHQQTGPRKAEI
8097	38465	A	8152	1	583	MAAVVAATALKGRGARNARV LRGKERDPGEGRTAEDPFSFTS SPTIAGGIL\AGATA\NKAS\HNR TRALQN/HTASPEGKEEP*/DPLS PELENTFPRKEGQRTPMESCGN LPWA\IGFPLWLFLPLSSFTQAG KWDK/VTVLKAD*RLRAEHCG FSNTGRV*RARRFRAFLPEVAPF PLMFGSGVSGGADLRSVCDPP
8098	38466	A	8153	141	341	GTRGSPSKKGERVRRDAQQTATW* TRSPASGCFQICEGNKQDE ACDVRGLQHCHERHSLAGPREY
8099	38467	A	8154	1	521	MKNRSRNKGNVEWQAEGIRSK RSVGKQRPSKAKIPSGDKNGVS LTHNEVINNDNPLESNDEKEGQ EATCSRPIVP/EFQQ**LFRPE* WRRASGNLQLIPKKRVSA*GTR GSPSKKGERVRRDAQQTATW* TRSPASGCFQICEGNKQDEACD VRGLQHCHERHSLAGPREYMP

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8100	38468	A	8155	1	619	PEAELHNHGIQINSCSVRLVDIK KEKPFNSKVEQQAQARTH QASDIIVISSEDSEGSTDVDEPLE VFISAPRSEPVINRATPCELKC* KEG\QEAIC/SRPRDVPRALGFR KF\SPFEESFRKGLLGQDPDFPD SIEKKPPAEASSGVALRSKHGEK APMTSRSTSTWRIPSRKR\RFSSS DFSDLSNGKELQETCSSSLRRG SGKE
8101	38469	A	8156	362	1043	PTTPPSAGSSWTTASPPS*GKA WLGTGRPPSPWRRMSASMR\T EEDGRLQPQLPL*AHPSESSGQ DRGNQVSVGREADCQD/SPVS TMTRSHPGRPCAEGC**PCCSSR P*PCPCGSGSLVTSPLSLPAPSF WLPLRPS/SPPGLPPLQSSLSFPP PPPPVPQPPAPPALQWGLHLPG VPQPGVPAGRRVVRLSAKHLPR LPDHSV*GAPGRRSLREHLPQH RPGDQ
8102	38470	B	8157	52	633	
8103	38471	A	8158	15	3054	AGPDGLAAPASCQGARGQTRV PGAFSWLAPGSHHASEGLAPG VPPAGGVSAQELTAPPQEGWG LGAPPAAPRPESDEKRAGSDAV RSFSRGARDSLGQRRLLGGTRGA GPAGKGAQRTMGPASGFHSFPP RPHQEPSRSCWQHLLWHCP WPQPSRLPRLTPAQLLQGPV AAPPGP*HVPGFQAQSPWPLPS GPRSP*DPLHQGALVPLPQGG PHTAPHCLPSVLSPAIQQLPT AST/SSRSPASTMAP
8104	38472	B	8159	748	3111	
8105	38473	A	8160	1	463	GGGGGRGQRGRPSRPRYLCPGP GPTG/GPGACAAGGVTVGPSED NGRPLLPPQRHPPVGDFFRRRC RFRLPKHKERSPDARFKEGPGG AA/GPGARGQ*DSARTPDSALK LVRPPLPIPTGRPSCASGGR*PA GKRGHLSAPPRPGRSSPGPSQP

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8106	38474	A	8161	1	2733	MALRRAGAGRTGCFIAIDTML DMAENEGVVDIFNCVRE/LRAQ /RVNLV/QTEEQYVFVHDAILEA CLC/GNTAIPV/CKLQNLFQNTK CTAMSNYTLTQGLLQHWLS*T T*FIWLAGTMRLCLSLCVDAAS APWVLKTLNIVT/PRVRPEDCSI ARPNHDKNRSMDVLPDRCLP FLISVDGESSNYINAALMDSHK QPAAFVVTQHPLPNTVADFWR LVFDYNCSSVVMLNEMDTAQR GQSFVGPLEFGGAQL
8107	38475	A	8162	1	307	
8108	38476	A	8163	3	969	GLFCSRKTPPSK*KHNVIASDK AAEKSVVHEHEHSHDHTQLHA YIGVSLVLGFVFMILLVDQIGNS HVVHSTDDPEAARSSNSKITTTL GLVVHAAVFYVSLFPNIADGV ALGAAASTSQTSVQLIVFVAIM LHKAPAAFGLVSFLMHAGLER NRIRKHLLVFALAAPVMSMT YLGLSKSSKEALSEVNATGVA MLFSAGTFLYVATVHVLPEERL KLVTVLGAGLLCGTALAVIVPE GVHALYEDILEVVPSPFYCHLY VYEYLMFSSHFCSPDPWQDQL LTLRVCSSTSASLGEGCLGVSSI RKGMELSVQAQHHEVAKA
8109	38477	A	8164	164	240	
8110	38478	A	8165	2	417	QQIRKLIKVGLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMGTR*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDDHMYHSL YLKVQGNMFTNKQILMEHNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
8111	38479	A	8166	1	86	RTRGCLSHHNNH*HLHRHHLH HHYPYSY*HHHCLNYH/APYLF HWLYH/APHHLNQHAHYLHLY YHHHYNHHHHLHHHHRSHCH HHHHHLTIHLLCQHHHHHFHPT KHLLLAHPQALQTHH\NHHDH/ HHHPYSY

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8112	38480	A	8167	50	1156	LLLQFSRATFILFQPPANTFTSA FSQTRARRGGSGRGGGQESAEE TSEFGDRHAPEAAAATRG SAR APEPKHASSCGTRGQCACARRE VEAQVRAKGDVTAERARRGGR WLTRSGMEHLERCEWLLRGTL VRAAVRRYLPWALVASMLAGS LLKELSPLPESYLSNKRNV LNV YFVKVAWAWTFCLLLPFIALTN YH/HDRQGWLGPAAD*/CTLLV GTAIWYICTSIFSNIHYTGSCY QSPALEGVRKEHQSKQQCHQE GGFWHGFDISGHSFLLTFCALH DCKKRCLCLQ*R*KTDRSHCLH TAITTLVVALGILTFIWVLMFLC TAVYFHNLSQKVFGTLFGLLS WYGTYGFWYPKAFSPRTSSPEL
8113	38481	A	8168	2	926	
8114	38482	A	8169	2	1053	TRERFSVANRVGTGSETPKAEA GPESAAGGQEEEEGEDEEELSG TKVSAPYYSFWGTLEYHNAMV AGTEEARDGSAGVRVLYLYPT HKSLKPRPVSLEGKCRFKENCR FSHGQVVSLDEL RPFQDPDLSS LQAGSACLAKHQGWPLERQHA SPMWDNGYLHSQV*LAAA\RE AVVGGGRHPAPTAHKRPQESD SDS\EVRVTPAMPEWWGQMLW TLGPAALPLLGW EVHTRGIGSR LLTKMGYEFKGGLGRHAEGRV EPIHAVVLPRGKSLDQCVETLQ KQTRVGKAGTNKPPRCRGRGA RPGGRPAPRNVFDLNEKLQGG APGALEAGAAPAGRRSKDMYH CQQECQAGP
8115	38483	C	8170	166	419	

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8116	38484	A	8171	55	1157	ALDEPHGAGASEERAGDVFGPP RRVPGPSLWPLEAWPTSSQKV MPQVRCLHLHQVWGQRGGPPR \\KRWAWAARGHTGLGPTPHGP S\\WTHSNFLKEKIF*KMFA\\KQV GPEAKQSLPNGFPGVATAWSP VRSSVCPLFIKARPSC*QLQDSC WDPGGTETADPGHTGLELRFPE PPKPTLPLALSEAPVPQREEKTQ GRGHYPAPQCLPGDPCSPHHPA PQPHQPHPAR/HN*PPPPRPSSHP PTTVPPTRPQPWQPGCCAQPPR PCLH*RGGN*VY*GMQLHQKS VSWPHSQWPQKREGNGSSHEI HPSCPPSGFHGSPSEGRMPTQA GALHSWVPGLSLSHSGSPHPPP RWTATVQAARPRVPPLTNL
8117	38485	A	8172	1	362	LFDNTVYCPRTERLLKNDTKH QRHAQSACQLSTTLVCSQHRK VSDFIFQHKHSAPLPQKSKRKQ NQQSFMLKTLNKLIDEMY\\RA IYDKPTANIILNGQKLEAFPLKT GTRQGFSLSPLL
8118	38486	A	8173	1	655	MIISTDAEKAFFDKIQQPFMLKTL DKQGIDGTYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGC PF SQLLFNLMLEVLTRAVREEKEI K\\GIKYLGIQLTRDVKDLFKRN* KPLLNEIKEDTKKWKNI PCSWI GRNTNTVKMAILPKFR*WTR*RQ FSTVHKD*KLSETVSHSYLKIKF WKLKRPFLHSEPLKERQQDSV SLMNWVCMSSKTGQY

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8119	38487	A	8174	2	1936	DKPTANIILNGQKLQAFPLKTG TRQGCPLSPLLFNIVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQN\AKKLIS NVS\KV*GYKINVQKSQAFLYT TNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL N\EIKEDTNKWKNIPCSWIGRIN IVKMAIL\PKVIYRFN\ IPIKLP TFFTELEK\TTLKFIWNQKRARI AKSILRQKNKAGGITLPDFKLY YKATVTKTA\WYWYQNRDIDQ WNRTEPSEIMPHIYTLI\FADKPE KNKHGGKASL\FIKWCWENW LA\CRKLLKLDPFLTPYTKINSR WIKDLNVRPKTIKTLEENLGITI EDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DMNRHFSKEDIYAAKHKMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRCWRGCGEIGT LLHCWWDCKLVQPLWKS VWR FLRDLELEIPFDPAIPLLGIYPND YKSCCYKDTCTRMFIAALFTIA KTWNQPKCPTMIDWIKKMWHI YTMEYYAAIKNDEFMSFVGTW MKLETHLSKLSQEQTCKHRIFS LIGGN
8120	38488	A	8175	2	1105	LPTKKSPGPDGITAIFYQRYKE ELVPVLLKLFQSIEKEGILPNSF YEASIIIPKPRDITTKENFRPI SLMNIDAKIP**KY*QN*IPAAH QKSLSHHD\KVG FHPGMDW FNIHKSIN\LIQHINRAKDKNHM IISIDAEKAFDKIQPFMLKTLN KLGIGGTYFKIIRAIYDKPTANII LNGQKLEAIPFEMLKVMYRAF RQNKQIKGIILEKEEVKLSLFA DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNT QTESQIMSELPFTIASKRRKYL GIQLTRDVKDLFKKNYKPLLKE IKQDTNKWKNIPCS*VGRINIVK MAILPK*DVLASPSPTMTVTC RKQVQVL
8121	38489	B	8176	120	2036	
8122	38490	A	8177	3	316	

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8123	38491	A	8178	1	1447	MSIRVTQKSYKVSTSGPWFFSS CSYLSGPSAHISSLSFSRAGSSSF QGGLGRGYGGASGMEVITAVM VNQSLSPINLEVLDNIQAMHT *EKEQIKTLNKFASFIDKVQFLE QQNKMLENKWSLLQQQKMAQ SNLDNMFESYINNLRWQLETG RKKLKLEAELGNMQGLVEDFK NKYEDEINKYTEMENEFVLIKK DVDEAYMNKVELEYRLEGPTD EINFLRKL YEQEIRELQSQILDM SVVLSMDNSHSLDMDSIIAEVK VQYEEIANRSWAEAERMYQN* YEELQMLAGEHGDDLLSTKTEI STINQNISWLQAEIEGLKGQRA/ SLESTITDVEQRGELVIKDANA KLSQLEAALQRAQDMALQLH EYQELMNFKLAQDIVITTYRKL LESEGSWLESQMMSIHMKT TSGYAGSLSSAYGGLTSPSLSYS LGSSFGSGAGSSSFSHTSSTRAA VVKKIEAQNGKLVSKSSDVLPK
8124	38492	A	8179	272	1813	KCGLRSRSSFSAPSRI SAWFGPP ASTPASTMSIRVTQKSYKVSTS GPRAFSSRSYTS GPGRISSSSFS RVGSSNFRGGLGGGYGGASGM GGITAVTVNQSLLSPLVLEVDP NIQAVRTQEKEQIKTLNNKFAS FIDKVRFLQQNKMLETKWSLL QQQKTARSNMDNMFESYINNLR RRQLETGQEKLEAELGNM QGLVEDFKNKYEDEINKRTEM ENEFVLIKKDVDEAYMNKVEL ESRLEGLTDEINFLRQLYEEEIR ELQSQISDTSVVLSMDNSRSLD MDSIIAEVKAQYEDIANRSRAE AESMYQIKYEELQSLAGKHGD DLRRTKTEISEMNRNISRQLAEI EGLKGQRASLEAAIADAEQRGE LAIKDANAKLSELEAALQRAK QDMARQLREYQELMNVKLAL DIEIATYRKLLGEESRLESQM NMSIHTKTTGGYAGGLSSAYG GLTSPGLSYSLGSSFGSGAGSS SFSRTSSSRV VVKKIETRDGK LVSESSDVLPK

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8125	38493	A	8180	1	3519	MHKELPALAACGLVADFDPVG EEETADFGPLVLDSDDSVDR DIEEAIQEYLKVGSSKDQGSASP VSMSRADSEFQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8126	38494	A	8181	208	445	AACVWRERHHRAEECCPGVH LPPLLHP*KSKWPGRC/RLRGN AAHPPWGQGQATPALCGGLQ QPESQ*GLSSLGGSR
8127	38495	A	8182	1	1607	MDMFRSGIRRDGGLGDGIVRA RRRRQGALAGSSQPIQAAAVPR GP\GPAPRDPRSWPSCQGSSGEA *PYWKLEGAGLE/RKRGTEIRA VGEQLESWRSWRKDVAGCSSP TPIPEFGAAAPTKS/GPAGPSSTQ QPSSRIWAAPRKRLAG*DTA HK NHP/SAAP*PAPQDRARPK*PPR ADPQRSVTPPRSPKGS*GSPFFP KQ/PRIPKSGAASEASNPLLAITS QVVGGESESETRVEGLMKEESV REGNAAFSRFLRKSVA/ACKPPAS EKDRGSRAAEGDEHASSNLQEP IPHLP*TALGERPEARQPIRFRP PGEPCSHPRSVNELGTGEPHTF QLGCLQRHPGAVDQAGPRGPG AGSRARETGKTGTNSEAAVRQ EPKQRLSKIHTSSTPGHRL/EPT AFRTRSARSPELASGHQAGKV VAGPRVRARGA\PTTGRPGLAAR PTEAERASRAPCP\PPQTDARLFI TARPRGKSGCRLPAHSPDPSPSR LPGPRSRSR/LSPA VRVVAAGEK EASGAETAFFPAWGTMALFWSL QPRALQAL

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8128	38496	A	8183	3	683	ERGITAGPPGVHPPTARSAGAA LPVWDSSACVEGVRPAPAMPD *EHQLR\SGLGCQDTLMLIESGP QVSLVLSKGCTEAKDQEPVTE HRMGPGLSLISYTFVCRQEDFC NNLVNSLPLWAPQPPADPGSLR CPVCLSMEGCLEGTTEEICPKG TTHCYDGLLRLRGGGIFSNLRV QGCMPQPVCNLLNGTQEIGPV GMTENCNRKDFLTCHRGTTIM THGNLAACI
8129	38497	B	8184	230	252	
8130	38498	A	8185	29	316	GRVSRCLPFKL VTPVLCFCLWH RSY*EYRNF*MNQISK TQLKQR PTRFTG**QPWPRWW/PAPPRPS QGRLAGREWSTQAHPRDSQGP RLCGEGRGA
8131	38499	A	8186	1	57	SRPVQAGPKATGTPQPPPS*PEP VERPLSMASGTHAQGPSPPSW PQLTGAVAQDSPSPGLLPPRDT APAPSMPTADGVQRCARQSGN TGPRVAT*PVAPTSFPAGPDSGE MG/ESCRRRPGT*PTPFQSRLFR RRPSASRIYGLLGPCVISL/HKK QKSLPPLAPPGTITVDILFTWAS SLFSLNATEGHTVRHV*CSRRN YQKANAPRTPTASPNTRSHSLG NAKTPPQTVPHRDHPTPQEHTG DTSSCVAVLSANTRERA AVEC GVTVLNLD*LK*TARSYSMSSA STGVAGSVQGKR/LRTSALSSG G*GPKATGTPQPPPS
8132	38500	A	8187	1	3564	
8133	38501	A	8188	154	256	
8134	38502	B	8189	1	1206	
8135	38503	B	8190	1	1311	

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8136	38504	A	8191	2	2491	EAGEWEEGPSQNGLVLQGEKL PPDFMPKLVKNLLGEMPLWVC QSCRKSMEEDERQTGREHAVAI SLSHTSCKSQSCGDDSHSSSSSS SSSSSSSSSSCPGNFGDWDPSF LAEHKRLGLWNSPHSIGAMPGS SLGSPPTIPGEAFPVSEHHQHSD LTAPPNSPTGHHQPQA/LSNP/AL TPAPLAP/APHPHLLPTTPAAPFP AQASECPVAAATAPHTPGPCQS SHLPSTSMPLLKMPPPFSGCSHP CSGHCGGHC SGPLPPSSQPLP STHRDPGCKGHKFAHSGLACQ LPQPCEANEGLGEEEDSSSERSS CTSSSTHQ RDGKFCDCCYCEFF GHNAPPAAPT SRNYTEIREKLR SRLTRRKEELPMKGGTLGGIPG EPAVDHRDVDELLEFINSTEPK VPNSARA AKRARHKLKKKEKE KAQLAAEALKQANRVSGSREP RPARERLLEWPDRELD RVNSFL SSRLQEIKNTVKDSIRASFVCE LSMDSNGFSKEGAAEPEPQSLA PSKLSGSSEQQPDINLDLSPLTL GSPQNHTLQAPGEPAPPWAEM RGPHPPWTEVRGPSVPVFPENG LVRR/HEHRAQPIPGDLGQDTQ AG/HPSSEEASSKEVPSCQQLP EPVSSGGKPQKGKRQGSQAKK SEASPAPRP/TSQPRGSQCQPG RWP/TSSQAGS*SLPK*AAVLKL ERGAGGAGQDQVGLAVPKLRR
8137	38505	A	8192	277	434	
8138	38506	A	8193	4	168	
8139	38507	A	8194	26	219	PRLQCIGQPRLTLPPGFK*FLCP SLPSSWDHRQTPT*LANF*KNY F**IWGFTMLGMGSGTCNP
8140	38508	A	8195	1	498	
8141	38509	C	8196	105	251	

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8142	38510	A	8197	1	1620	MWGVGKITDPKDVDTLIPGTC GCVTLHGERHFVDVIKAGPTRS VQGNPKLGSKKMEVSIMKTQE SIKLTVKATTQRRNRNESNGPT TEFHQSTMTNTHSDTWVVLDT PMKPGGPFEVMAQQTLEKINFT LRVHDLVLFQDVWLCGQSNM QMTVLQTLSCGVVTVIFIMTLA GAHGSTLSSGIFSIYQSDSLKCK SGRKAPVGPRVLRGTYSQS NSTGNPDLFVQDHTWQFCTKH SGSYVASMETVDETAFILSTHT SFRDTELKCFITVRRQLGRQY ERTCYLSFRPVANTVEYCIGFRF ASYINNDMVLQKEPAGAVIWG FGTPGATVTVTLRQGQETIMKK VTSVKGLISLLVCLSQFEIVPED DPQNAIVSSSADACHAELLRTIS TTMGKLMPNLLPAGADFFGFS HPAIHNLIQSCPGARKCINLPAS RPVGLSIGPLSPLDSYQWVKFD VCKPGDQQLPEGLPENDAAMS FEAFQRQIFDEDQNDPLL*SSL* PWLVMVPL/WSSGIFS/TISK*L FEV*VGSEGSSGSPCAEDRLHM VSRKFHRKSRPVCSGSYLA VLH *ALRILCCFHGNSG*NCFHSLHP H*/HSALTGNSSASSQ*DASLGG SMREHATCLLDPLLTL*STVLV FALLHTSIMIWCCRSLGQ*Y GASVHLEPQ*P*PCAKVRKPS*R K*PV/CKGLISLLVCLSQFEIVPE
8143	38511	A	8198	1	900	
8144	38512	A	8199	915	986	IITDRPGFHDESAIYPVGYCSTRI YASMKCPDQKCLYTCQIKDGG VQPQFEIVPEDDPARNAIVSFFW QMLVMQNSQDYKALLWGKL MPNLLPAGADFFGFSSHPAIHNLI QSCPGARKCINYQWVKFDVCQ TLEMGQLPEGLPENDAA\RAK PFQRQIL**RIDKRNLLKIKQL KVFPKGKTITRTTFHDEIPLVSSLP SELLPSFIYPKILV
8145	38513	A	8200	3	414	
8146	38514	A	8201	1	2445	
8147	38515	A	8202	1	248	ENGNLGPIQAEVKGATGECNIS ERKSPGVEIKSLRELDGSLGVH KIAEGFSESKKRSEDENENKIE FRK/KGGF*GGGFLRRK
8148	38516	C	8203	70	324	
8149	38517	A	8204	1	675	

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8150	38518	A	8205	692	808	
8151	38519	A	8206	1	1954	PGTGEETVRLGFPVDPRKVLIV AGHHNWIVAAYAHFAVWYRI KESS*WQQVFTSPYLDWTIERV ALNAKVVGPHGDKDKMVAV ASESSIILWSVQDGGSGSEIGVF SLGVPVDALFFIGNQLVATSHT GKVGWNAVTQHWQVQDVV PITSYDTAGSFLLLGCNNGSIYY IDMQKFPLRMKDNDLLVTELY HDPSNDAITALSVYLT PKTSVS GNWIEIAYGTSSGPVRVIVQHP ETVGSGPQLFQFTTVHRSPVTKI MLSEKHLVSVCADNNHVRTWT VTRFRGMISTQPGASTPLASFKI LSLEETESHGSSYSSGNDIGPFGE RDDQQVFIQKVVPITNKL FVRL SSTGKRICEIQAVDCTTISSTVTR ECEGSSRMGSRPRRYLFTGHTN GSIQMWGSGPLLWDMVNKSE DKDVSGPTTEEELLKLLDQC DL STSRCATPNISPATSVVQHS LHR ESNSSLQLQHHDTTHE SATYGS MRPYRESPLLARARTESFHSY RDFQTINLNRNVERAVPENG NL GPIQAEVKGATGECNISERKSP GVEIKSLRELD SGLEVHKIAEGF SESKKRSEDENENKIEFRKKG GFEGGGFLGRKKVPYLASSPST SDGGTDSPGTASPSPTKTT PPS RHKKSDS\SGQEYSL
8152	38520	A	8207	2	383	
8153	38521	A	8208	13	332	SKGFIVLLKCLQILKTPSLGPGN QGLNAGKESRGGGLSVKA*RA RPDSWRPGPPLSISITLRR LKEG RRHHRALPLCCIIITLLASSPNCI AP/TSVP*IPRLHPFWL
8154	38522	A	8209	1	1839	
8155	38523	A	8210	1	364	
8156	38524	A	8211	3	3723	MIPACGRAPGPYPSPVPAESES L VNGNHTPQTATRGPSACASHSS LVSSIEKDLQEIMDSLVL EEPGA AGKKPAATSPLSPMANGGRYL LSPPTSPGAMSVGSSYENTSPAF SPLSSPASSGSCASHSPSGQEPG PSVPPLVPARSSSYHLALQPPQS RPSGARSESPRLSRKGGHERPPS PGLRGLLTDSPCTTVLAE A\RR AT\ETPRLGGQLPVVAISLSEYP ASGALSQPTSIPGSPKFQPPVPA PRNKI

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8157	38525	C	8212	398	415	
8158	38526	A	8213	3	45	
8159	38527	A	8214	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPPDGARPGPSREL AVVARPRAAPTGPSAAAMAR PLVPSSQKALLLELKGLQEEP EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFLATKMWHPNIYETG YVCISILHPPV/DTDPQSGELPSE RW\NPTQNV RDHSS*V*SSLE RRPNTFLRPANVGRPLPWLQGG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPTTLPEY CVKDQGRRAPDEGSDLFYDDY YE\ DARVE\EEADSCFGDDEDD
8160	38528	A	8215	80	430	IAQGPFPYPPGWPCSGPGGNTSSP RPPPTGGKKGK/PGGPQK/PLAPRI PAVFTRGDSG*RSCPATTPLSA GSPSLPHRIPEPKPPHRIPEKHLH RACAHAPDPGSGGLRIFLTAVH HGKL
8161	38529	A	8216	3	645	FSVSHLLDLEEAGDMVAAQAD ENVGEAGRSL\LESPGLTSGTAT PQQDNDQLNSEEKKRKQRRN RTTFNSSQLQA\LERVFERTH*T PSSLFFLSFLMPSCLLTILQVWF QNRRAKFRRNERAMLANKNAS LLKSYSGDVTAVEQPTDLQLCE TNACYSPCSLLCPYSAMATYSA TCA\NNSPAQGINMANSIANLR LKAKEYSLQRNQVPTVN
8162	38530	A	8217	3	907	RVDDFVAVQLGRPIGSCFGGRA QLQEGVQKPQAMAVGNINELP ENILLELFTHVPAQQLLLNCRL VCSLWRDLIDLVT LWKRKCLR EGFITEDWDQPVANWKIFYFLR SLHRNLLHNPCAEEGFWSLD VNGGDEWKVEDLSRDQRKEFP NDQVKKYFVTSYYTCLKSQVV DLKAEGYWEELMDTTRPDIEV KDWFAARPDCGSKYQLCGHLS\ DAAQGPHTGFQPD PATIQKSD AKWREVSHTFSNYPGVR YIWF QHGGVDTHY WAGWYGPRTVN SSITIGPPLP*HPLSPHLLNPDW
8163	38531	B	8218	117	398	

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8164	38532	A	8219	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGPFPVQNCLS LARSDSREQGLVLMESRNRE VVPPGVSYSKDGAKSLKGDVP ASEVTSKDSTFSQFSPISAAEEC GDDEKIKVDDPLTRRTCQASG SAPQQDYDKLKAFGGENSSKT GLSPSGNMEKNKVVKREAEAN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSCSSAI MALSAKKAASDSCKEPV
8165	38533	A	8220	1	1188	MPLDEDPSKLCRHNLCLECNE IFQDKTSLATHFQQAADMSGQ KTCTICQMLLPNQ/CQRIHQHKS P*TCPECRAICR\SHCEVFYKCPI CPMTFKSAPSTHSHTYTQHPSIK IGESKIIYKCSMCNTVFTLQTL YRHFDQHIEHQKRDVYISHVRK EHGKQMKKQPCCQRDKPFSSS HSLCWHNRIKHKVIRKVYTCSH CSDSRGTFTKQLMLEKHVQLT HGIKDPDLKE/TDRRHQ*GGNR NKRPPQGPQSQVEVERTGSGV QASQ\GAITQPKLEINVFKVHKC AVCGFTTENLLQFHEHIPQHKS DGSFYQCREHLFVAHKLKEPQP VSKQNGAGEDNQQENKPSHED ESPNGAMSDRKCKVCAKTFET EAALKTHMQTHGMAFIKSKRM SSDEK

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8166	38534	A	8221	842	2687	KGECLPSALS LNNGRESLESL ESLSLEGFTRGRAGLRTCSPCL SLPAPPWAPVLPEPPRGAPPPAP RRPVPSTTQGLRSAGARRGTGR QLHLRPRC/ADPLGEASWAPES GSAPAILKVRITIKMSSGEIKR TVTRVLPEVDLDSGKKSSEQTA SVMASVTFLSSPASAAILS/SSP QGASPVHGHQCSFTC/SSSPLN RAPA/GAIKAANAIQQQTVVVP APSRANAKLVPKTVHLANINLL P/HGSATN/ISRQ*SMQQ/RSQPP KKVSRVQVVSSLQSSVVEAFN KVLSSVNPVPVYIPNLSPTNAG ITLPTRGYKCLECGDSFAVEKS LTQHYDRQSMRIEAADTRGQK TCTICQMLLPNQCSYASHQRIH QHKSlyTCPECGAICRSVHFQT HVTKNCLHYMRRVGFRCVHCN VVYSDVAALQSHIQGSHCEVFY KCPICPMASNQNKEDTKSMNG KEKLEKKSPSPVKKSVETKKVA SPGWTCWECDRLEFIQRDVYISH VRKEQKGQMKKHPCRHLQCH NRIKHKGIRKVYACSHCPDSRR TFTKRLMLEKHVQLMHSCLKDP DLKE/TDRCHQ*GGNRNKRRH QVPQSQAPLHCTQVKGTSASV QAKWSWGR
8167	38535	C	8222	1	438	
8168	38536	B	8223	98	463	
8169	38537	A	8224	1	2679	
8170	38538	A	8225	1	1209	AADTRGQKTCTICQMLLPNQCS YASHQRIHQHKSlyTCPECGAI CRSVHFQTHVTKNCLHYMRRV GFRCVHCNVVYSDVAALQSHI QGSHCEVFYKCPICPMASNQNK EDTKSMNGKEKLEKKSPSPVK KSVETKKVASPGWTCWECDRLE FIQRDVYISHVRKEQKGQMKK QPCCQRDKPFSSSHSLCWHNRI KHKVIRKVYTCSHCSDSRGTFT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GGNRNKRRPQGPQ SQVEVERTGSGVQASQ\GAITQ PKLEINVFKVHKCAVCGFTTEN LLQFHEHIPQHKSDGSFYQCRE HLFVAHKLKEPQPVSKQNGAG EDNQQENKPSHEDESPNGAMS DRKCKVCAKTFETEAALKTHM QTHGMAFIKSKRMSSDEK

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8171	38539	A	8226	58	391	FAKNDGFQLHPCPEPL/PWSQTRTQSAAWA*GCNYLQPTGAADLLAYFEFLGPEGKTGW*QGLDRDATGAPPSPTARQ/RVGKALGT AASLIPSFIP*SKKMARETAAWSEW
8172	38540	A	8227	993	2235	NGGPHLWRLPTAHRACGERH GQAVACGGAVAE\ALVGPAPT VGLRRGCPHSAPGGYACPVSSS TYSGLGQRCVFPHYSPRAVPN LVPALGAPKP*MGPASGL*GD MLPAASVKRAPTAAGPWMLYP YSPARLDSAA/LQALSTKKVAS DSSKEQVANSRESSSLKEVND SPRAADKSPESQNLIDGTTKTS LKQLDSPRNISSENSIKGTPASP AGSTPPIPKVRIKTTKTSSGEIKR TVTRVLPEVDLDSGKKPSEQTV SVMASVTSLLSSPASAATLSSPA RVPLQSAVVTKQFPLQSPPLNR SQSSLWLLSSQCLL*RQQDPK SLI*SSLTTPR*KPRSYLLPLSRV PAAPSLKLANAIQQQTVMMMPA SSLANAKLVPK\MHLANLNLPL QVAPATSELCPVSIKTQPOI
8173	38541	A	8228	1	3370	MIINTIITTTTTITITIMSSSPIT ITNIITIIQHSHHHNDQRPSLGK CRGLYIRVRKVPGERATANSRC PINAQGIESCWNGVMALWLGP NSTCSRPELTDSEDCQIYGDTE RKRRHSRKTCRWEYQVETKDT FLEELLFEPALRTGIQSKQGGPL LQLAANNYNLEPKQHFGSWFG TMKQLGETESIFSAYEVCLTV YEIFGLPGIAPSKTKSFSNFLSCI TAIAALSTKKVASDSSKEQVAN SRESS
8174	38542	B	8229	1	438	
8175	38543	A	8230	38	597	VPCGPHCRLPSAWRTSPPRLWN DTTSRKWKSGVAKSSCYNL*PS AGMRRKR*LRAPSTLSGSALL *NRLMRSRRFCATSSCAS**CEQ RTSLSFEGSLWRSTITSRPPPSA ARISSASAPTRRRCASESAACRR STGRAGPGPGGGKQQMKAGR\ RGTAQPSSPHPLGIPTHPDTRG ASRQTGHL
8176	38544	C	8231	1	1062	

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8177	38545	A	8232	3	595	WSSAQPRASRAASRSSLHSS RRLCLRCRAPRRPQLVASAKGR ASSARSRRGRSRR*RGRARS GGGMSPLAQRRLK*ASSSSGRG AAWSRASGAARGSGPLTGRR SAPLHSSSTVPCSPRYARPGPPR ATA/RGPTRATCLPSHRSTITSRP PPS\LPVAVQPALPPGAAAPPSP PRAGGALAALGPGLTVGAGR
8178	38546	A	8233	2961	3005	SRLQQTIQADAFCAKGCWP GGM/DELEAETSSSLFLLAMQV WMCGRMEDIPCSRVGHIYRK YVPYKVPAGVSLAR/SKNLKR AEVWMDEYAEYIYQRRPEYRH LSAGDVAVQKKLRSSLNCKSF KWFMTKIAWDLPKFYPPVEPP AAAWGEIRNVGTGLCADTKHG ALGSPLRLEGCVRGRGEAWN NMQVFTFTWREDIRPGDPQHT KKFCFDAISHTSPVTLYDCHSM KGNQLWKYRKDKTLYHPVSGS CMDCESDHRIFMNTCNPSLT QQWLFETHNSTVLEKFNRN*A ALLFDESQFDSSNCQHSCYPR
8179	38547	A	8234	203	314	VPASSPALGSTLEFQLCEPINS GFCLNQID*GFGYL*ARFMSWPY WSLLSPFPLIPLH
8180	38548	B	8235	1	1008	

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8181	38549	A	8236	2	1495	CLVVTSTDSIRFQIIPWAGTEMK QE/IKLDGSMEEHLKKPLEDY MALFPSVRILRTKKREGLIRTR MLGASVATGDVITFLDSHCEAN VNWLPLLDRIARNRKTIVCPM IDVIDHDDFRYETQAGDAMRG AFDWEMYYKRIPIPELQKADP SDPFECQLVRDTLGDADSQQH DVSHLARCQADFLFPWSPVMA GGLFAVDRKWF/WELGGWAFS HGDPQQPWKESLFFPSCTSPQ VESHWPAGPMPIEQYCNWSP AVTCPVTAGRVCLGWGWR*RK *WGTKDLLGARWKS KPF*SP*T NQDVKPNPHDLIEQFQRKEHFC TESAWLGCPQNGSWLLQSQRS HRERWNHGIFMTVISAVSCGLH GVVCGGRMEDIPCSRNLKRVA/ EVWMDEYAEYIYQRRPET/GHL SAGDVA VQKKLRSSLNCKSFK WFMTKIAWDLPKFYPPVEPPA AAWGEQKDMPLSQYTSKGAGI KSYLGSCTHHWGHRGRQKQG NILIAHQ
8182	38550	A	8237	1126	1603	TIMKITGRAGDAIMGADICH/N KDRKVRKPEPKSQDIYLRLLVK LYRFLARRTNSTFNQVVLKRLF MSRTNRPPLSLSQMIQK\MKLP GRENKTA VVVGTITDDVVRVQE VPKLKVCALRVTSRARSILRA GGKILTFDQLALDSPKG*GTVL LSGPRKGR
8183	38551	A	8238	504	737	QLCWAGGKILTF\DLA VDSRK GCITVLLSGPLKGRKVYGHFGK APGTPHSHT\KPYVHSGRKF RARG*RAS*GYKN
8184	38552	A	8239	1	360	MLGFALLPAPPGPLV/GSG*SP DDQ\GRTGPALAPSLSRPSPAT LNSAGSEIHDRPRSGAPPTCLR GSAQASTSACSPGANGPEPKPG LGTLRQQLEHIMATNRLDEAG WVACYPTDVR

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8185	38553	A	8240	3	666	MSFRQLFQDLKRYVQDADVR WEYCVRAKRGQTDTSLGRLFQ QGGVPGRHRAHSATSPDHRFP VADLTGQGV*GCGPPAAPWG AG*YPGAPLHAGLGTLPAAAG AHHGHQPA*GGAGSPATRLM SVEGCSQRPWTEAPDRPLEHEA VCSVRPRPRCFLGGVGRAGAFL EEEWQHQSVCVPCPPWGLGT CSSMSGKLSRPPASSLLSRGKA WGQEEs
8186	38554	A	8241	2	443	RTSLEFFFFF*DGSFTLVAQA\ GVQWRHLG*LQPRPPGFK*FS YLSLLSSWDYRHALSHLANFV VYVLF*CFYETKSRSVTKAGVQ WCDLGS*LQAPPPGFTPFSCFSL SSWDYRHLPPHLVNF\CIVSRDG VSLCWSGWSRTPDYK
8187	38555	A	8242	1	354	VSLQPV*SQEGVSQRTLGQSSRS SGSG/CPGELNSPIFSGVPHRWD AA*EESRAAGVPWPSGQISGMC SKFRI*NW*DVSWAGWSEDLRS *VDLSHGAKSRRTGD*SPKGGP PIRV*TAP
8188	38556	A	8243	2	241	WSTGLLRSGS/NQSSAGKPRR SQSESPGP*GSRSSGSGCQESGT CH*G*RRRG*GVLAPAPGKRDL PPRVKDQVRHPCVV
8189	38557	A	8244	5	282	AKKESVREPWARVPGALGVAA R*VEQSD*FQCGPAQM*GHGLGG IPGCG/PFLGLVVRFLALVASSC PFPRKAGLA*AKGEGPRQASLRG LTPLKRG
8190	38558	A	8245	1	302	LSREGVGQKALGQSSRGSGSVC /LGELNSPISSGVPQRWD*TA*EE SWAAGIPWPGGQIDFWHL*QA PCPRKSREGVETRREGVGVLAP SPEKRD*LPLRVKD
8191	38559	A	8246	1	200	LSPKGV*SQRALGQSSRGSGSG/C PGELNSPISSGVP*PHRWD*TA*EES WAAGIPWPGGQISGTCSKLHS
8192	38560	A	8247	23	187	
8193	38561	C	8248	1	1764	

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8194	38562	A	8249	115	872	LRRGRITYPPP*ELPKARHP*WS TGLLRRSGSISLQPVVSQEGVSQR AFGQSSRGSGSG/SPGELNSLISS GVPHRWDM*A*EESWAAGIPWP GGQISGTCS/RAPGGGGSGGMP GCCGSGVWKFLCASRKAGKGS GHRDTRSGCGHKGLGRDMRL GCGNKSGHRRDIRGWGTCPPF RKAGLAAGGEGPRQASLRGLT PDLKLVRCWPAGWSEDLRS*V DLSHGAKNRRTGD*SPKGGPPI LGRPLRACSAAAVHF
8195	38563	A	8250	85	529	SGSISLQPLSREGVSQRALGQSS RGSGSG/CPGELNSPISSGVPHR WDTA*EESWAAGIPWPGGQISG TCS/RAPVGGGSGGTPGRCGSG VWKFLCAGDVAGVCLTVEAR NCNFFLLLYTLKARLIKSCPCPR KAGLAAGGEGPRQASLQ
8196	38564	A	8251	1	552	MEARETGPKWKEGNVERVASVL IKKGTGLPSTVRVTGSSASVMV YGASEAIGQHQSAAKPRRSQS ESLGPEFQGLWEWLPGPRAVK RLRVIFDEKEPKRYLIWDKEKG ALTMTPLAPATFLRVNCWAG GGGLVTERNCKP*WSTGLPRRS GSISLQPLSREGVSQRALGQSSR GSGSGCQGLGL*SVLIKKGTGL PSTVRVTGSSASVMVYGASEAI GQHQSAAKPRRSQSESLGPEF QGLWEWLPGPRAVKRLRVIFD EKEPKRYLIWDKEKGALTLTM PLAPATFLRVNCWAGGGGLVT ERNCKPDQKMKGIEIKRRERLK CGSKIERRKRLRDSEGGWRRVE
8197	38565	A	8252	535	710	KCFPACHHYHNNHHHHHYHHH HQHHHHYHHHHHHRITIIITIF TIITIIINIINIITNITIVIFMRVR VKRPPNRLCVSNMAVYFTWVQ KKKSSSLAFSSVVTSDLKSKRR LSGKSLETSSASLMVYGASEAT GQRQSSAAKPRRSQSESLGPEF QGLREW*YGDGGDDDDNDGVD DGGDDSGGGGGCGSGGKQESI SIFD

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8198	38566	A	8253	54	563	AEKESVREPRARVPGARGVAA RPSA/RPR*GRLLCSPTYPKH* NCAWHQQAGCWLGTGPAAPA SPPACAAFSWGYGGLPAPIQTA FQAGWAGAPGQRGRSKTTRPGV QSVSNPGEPAPEPRAAASSGLSS GAFPAPATDPGICSWAEGLM GKGHHHRPSISARIPCFHV
8199	38567	B	8254	232	987	
8200	38568	C	8255	1	1812	
8201	38569	A	8256	1	1035	
8202	38570	A	8257	2	664	SLIKLIPPPRPFGRNRHLPVIRQN ERTQRGKRRG\TRYMFSPF*/R KHGVVP\LATYLCEIYKQRCDF VDIQGEWGTCSSKKGMP/HHKC Y\HG\KTGRSLTIVTPACLLPLFN TTQFRRKILAK\RINV\RIEHI*AL LRARD*LP*NRVKENDQEKERS PKRKGTWGST*SRQP\APPR\EA HFLEPNGEALSCWEPFPYWI SLGLLGVKKKNKKDLWATKK
8203	38571	A	8258	1	747	MSESLKPLPEVDAGAILLVQP AELYSKASRLDDCYQKDSYTH RCQEKRTCHTTGGHSGKHQSL SGASVSPTCSAKTRDKINCFDFS PKSEVITLSSNDDSIIVLSDCQEG KPKPCSGPFATFKMQYDRTCE WTALKISNGGKLILISTNVSFIR LIGAFKGVVIHTFGSYANSEAV TLEASFTADSQFVMIGSEDGKI HVVNEESG\KK*LGWMVNTQA QLPVCNSTPSSMTFASACSNMA FWLPTIDD
8204	38572	B	8259	50	260	
8205	38573	A	8260	1	541	EVWGPGLASEGAVGITHGPFPPK AKRNPVKVRSKRRDPPIQFQNL RRS*WRSIPRKPGRQTGSRRSL WT/ALHPGAGTAKHPPPA/CA GRET*CKSKSPAGRKWSFHRSS SRRASE*DASQFAVPAGVTSRE PFGSRRTGAPTGGTGTPTRTAR SRTWSSSWVRLSGRTGAVGYS RSPSCSS
8206	38574	C	8261	177	236	
8207	38575	A	8262	1	417	

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8208	38576	A	8263	2	475	GIHTRLNSELLKEEESNRLEAE IEVYQSRLTAAISKHSESVKTER NVKLALE*TDVSVQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLALET L/QNDLSQTQQQIKEMKEMYEN AEAKVNNSTGKWSCVEERICQ LQHEN
8209	38577	A	8264	3	518	IFRAPFRICLGILLSPNPTEQAQY KKQLEQ/FKQGYNTASLNKKEL TLKDVECKFYKMKTAEEVTT ELEEYKEAFAAALKANSSMLK KLTKSNKKIAMIS/TQLFMEKEQ VKYFLSTLRARRGRESPCDENL TSIGL/NRKYIPQMPVRIPTS/SPQ TSNNCQNYLTVSHMTVSL
8210	38578	A	8265	1053	3733	NGRSCCERSSTKKECTDIESSEF VNRKSLTSG\LEEEQQRRESEK KQPQDFHNHEEVKDLMDENCI LKTDIAIPRQEICTMKNDNLEKE NKYLDIKIAKGTNAALENCIK LNEEMITKTAFRYQQELNDLKA ENRNLSELLKEKESKKLEAE IESYQSRLAAAIKHSSENVKTER NLKLALERTQDVFEQPAGLEEA ELVLSRLSCGEATEGAARRALA AEEAGRWRRGVG/DSWLAPES RLHVLKTCGSCWWENLELGRH H*LCLWAVKNFQKRFLPGQKK SPFQLMSPQREFQHTL*ITQKQN RVMNNFIKKYLRLMSSV*CMP LT/IKHSIDKEVRSTSARLPCLGS EERICPAALSGKYKKLLEMTIN VLSVFGNEDFDCHGDLKTDQL KMNILIKKLKHKFDDLTAKEA VSSKCVDLAKDNQVLQQELLS MKKVQQQCEKLEKDKKMLEE EILNLKTHMEDNMVELSKLQE YKSELDERAMTAVEKLEEHLQ LNKGNTASLNKKELTLKDVEC KFSKMKTTYEEVTTKLEEYKE AFAVALKANNSMSKK\LTASN KKIAMISTKLLMEKEWVKYFLS TLPTRRGQESPCVENLTSIVLNS KYIPKMTGRIPTSNP*TLNNWQ NYLTEEDMVSGDLISGTWSME EWSLGASSLGTWSAAVGQYLA RWPLCDLSVTVAESPSPLCCGA
8211	38579	A	8266	2	209	

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8212	38580	A	8267	1	1431	MTQKAAASVEHLAIRCHWSQR PAVTGDVLQVYSGSEGTAIIFCE TQRSVTEIAMNPHIKQNAQCLH GDIAQSQRFTLKDFFREGSFKV LVATNVAACGLDPEVDLVIHG SPPQDVE/SYIHRSGRTG\FVTM TLESLEEIQDVSCAWKELNRKL SSNAVSQITRMCLLKGNVRVCF DVPTTKSERLQAEWHDSDWIFS VPAKLPEIEEYYDRNTSSNSRQ RSGWSSGQSGRSGRSGSRNYF AVDTASAIAlALMTFGTMYPMS VYSGKVLLQTTTPPHVIGQLDKL IREVSTLDGVLEVRNEHFWTLG FGLAGSVHVRIRRDANEQMV LAHVNTNRLYTLVSTLTVQIFKD DWIRPALLSGPVAANVLNFS DH HVIPMPLLKGTDDLNPVTSTPA KPSSPPPEFSFNTPGKNVNPVIL LNTQTRPYGFGLNHGHTPYSS MLNQGLGVP GIGATQGLRTGF TNIPSRYGTTNNRIGQPRP
8213	38581	B	8268	128	1497	
8214	38582	A	8269	1	618	
8215	38583	A	8270	1	334	LFHSIFGYLPFARQTLLPGSILVF TYTQPPKIQFANGTKGLPDPLM TPK*QK\APLMPLL VSLGLSAST IALGTRIAGISTSVTTFCSLSNDF SASFSPYLHRCFLPWSSL
8216	38584	A	8271	1	2919	
8217	38585	A	8272	1	4192	MRIPVDASTSRRFTTPSTALSPG KMSEALPLGAPDAGAALAGKL RSGDRSMVEVLADHPGELVRT DSPNFLCSVLPTHWRCNKTLPI AFKVVALGDVDPDGLTVTMAG NDENYSAELRNATAAMKNQV ARFNDLRFVGRSGRGKSFTLTI TVFTNPPQVATYHRAIKITVDG PREPRNNECVYGNYPEIPLEEM PDADGVASTPSLNIQEP CSPATS SEAFTPKEGSPYKAPIYIPDDIPI PAEFELRESNMPGA
8218	38586	B	8273	385	3930	
8219	38587	A	8274	830	906	

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8220	38588	A	8275	483	971	ATMPGHFYLFCE TGSNSV SQAG VQ*HDFGSLQPPPPGFKQFSCLS LLSSWDYRHMPPRPANF/SVFL VEMGFYHVQGAGLGLLTSGDP PASASQSVGITGMSHHAGPTM KLLNPQSEVIFSPRNSHSTLLTP LSRHLPHPI SISTWCIHYAPLHT VSISAEAP
8221	38589	A	8276	1	2088	
8222	38590	A	8277	1	1822	MMTKDGLVFGLQRGSPILYVQ GLSRFRSFSVASGDSKRTRHRE KLPLLEAGERDHN CYGSPQILA FQAICKIAKPGKEQSCSKLVGH TFDPLLEARKPEERQKLPDPCV KWGGVGNFPPVKRVGDIRIFVS QGGKFSQAPEGPEVTSGSQGLE SKTLEVYPVFYCTVAELALNHN VQPSHSTLPFPQAE EPHSVATTT GPWGVLPGCCQCSLKAQGLFS QLMNAACTGIHTSGQWAPLW PSTVPEMPKSSGLES GTPRTCF VLYPAVAKLLPRGTLAYSGKG CQNSSANHW DGTQIHSPCHAA AAREYGGKSGISDSRLSPTLFSA SFSNMNLKLD FKVFYGCFCF EATAGANVLIKI IRESKYKNTD DIDILSRQATPVIAQLAHEHSGH VAGMEVVFGFSNTDFHLPRQT WLQPLSHASLLAAETNTESKND TTPQGDQPATWRLNSGYGYAF PACNASAKTIHGLTEVLYTVLV DGNHNLLTKLSLEENCLIQLK CENLQKLEQMAA\ E*KSLRRK RATQEECLMHSNLKFKEKSAE YTALARQLEAALEEGRQKVAE EIEKMSSRESALQIKILDLETEL RKKMEEQNQLVFKNEQ
8223	38591	A	8278	1	5103	MDESSVHSSVGDRHVDRVSTS QVAERTRCNKMWRIETKSPSG DNEGTVIEK KTRLSGQGFC LQLSEGLQNLQAQRRKIKFREME DPSSRPLCSSLDIALCASVKPSA GFPQRPVKVPLCVLGSGAGTG DAERSLQSSDPLKKQQPLARSL RGLCERIVLGGSGCGARGLRG AGGGTALSVP GASRGFEGMFG LDQFEPQVNSRNAGQGERNFN ETGLSMNTHFKAPAFHTGGPPG PVDPAMSALGEPPILGM
8224	38592	A	8279	1	783	
8225	38593	A	8280	888	4915	

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8226	38594	A	8281	94	757	APTGCLACNLLLCELGQVTSPL *ASAPKCVTVHN*PLCKALPRR *SSAWELS*MRKLRLRGVNFLR TDGLCFICISTRATPPSSARARCV STSLKPASLQLAVSYHHGSRSQ GCHLPAGREVCTSQSRGVRETS PWGC\EKGPSYAEGFPAVISLNP PSSSTAHDLPANKASASQPGSH LQCLSVHCTDDVGDARASV PTWRSLSHSDISNRFGTFVAALT
8227	38595	A	8282	2	374	
8228	38596	A	8283	260	500	
8229	38597	A	8284	98	828	RWASVFPHFPFYLLPALLEKKT AERRGGAFSRNKQTAGPCGGT LQEEGSARTVGDSYGEASAGG FSCNKEEGNQRYREG*VTEML\ GVGYHRALLQLRGLDPS/PALS VT*SRTSGPRPSRLNKKTYCIPP RQDCYNNLAACLLQMEPVNVE RVREYSQKVLERQPDNAKALY RG/SGVAFFHLQDYDQARHYLL GCRE*AALKMPNVRYPRLTR VRTQQPTHRKEKQLLPWACL V NKEERCSSS
8230	38598	A	8285	396	602	GNCGPEKERTCLRSPSWTPMPS\ PKQAVPVSSWPPGPHHQRCVP SRSSNFSKSSKSNSCDGWNSSSS SS
8231	38599	A	8286	3	156	SVVSLSPHR*AIQILSGVAAGW GLSDGPSSPPSPSGARDTGSPG SSLGL
8232	38600	A	8287	32	515	ARGSWGPGAGARPPGTARRAA RCATGCGSRSRSSHAPVSPRRA APSSVHPGGCHGPALPPSPRR VTQAADARRAAPPLRAASAAP SRRWSQATP/K/RRLGYPPPRP PAHPGPR/PPLRRMVSRSSEDP PRRLT*TGSETPKSTWRELSSRR RSLQSKAATR
8233	38601	A	8288	30	460	RRCPAQRGEIWQSGH\RALLSC SGLHPFQTSWLPVYTVRVKLPT QALAMVDAPPPTKLECPRLISV CCYAGSENFKPVDSLSSIGGS GGVGTRGNLLVCELRPWDKR SIWAGV\SRFLRLSPSRFPLA*LG LSSYLTTTRKT

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8234	38602	A	8289	2	1094	RMSRISDDSRITASQLDEFQECL SKFT\RYNSVRPLATLSYASDL NGSSIVS\SIEFDRDCDYFAIAGV TKKIKVVEYDVTIQDAVDIHYP EN\EMTCNS\KISC\ISWASSYHK NLLASSDYEGTVILWDGFTGQR SKVYQEHEKRCWSVDFNLMDP KLLASGSDDAKVKLWSTNLDN SVASIEAKANVCCVKFSPSSRY HLAFG\CSDH\CVHYY\DLRNTK QPIMVFKGHRKAVSYAKFVSG EEIVSASTDSQLKLWNVKGKPY CLRSFKGHFNEKNFVGLASSG DYIACGSENNSLYLYYKALSKT LLTFKFDTVKSVLDKDR\EEDD TNEFVSAVCWRALTQMGES\N VLIAA*QFRVPIKVLELV
8235	38603	A	8290	1	667	MRIKATSEDGTVIAQAEYGSVD IGEEVLKKGFAEKCRLASRTDI CEEKKLDPGQLVLRNLKSPIPL WGHRSNQSTFSRPGHLSEKM TLDLKDENDAGNLITFPKESLA VGDFNLGSNVSLEKIKQDQKLI EENEKLKTEKDALLESYKALEL KVEQIAQELQQEKA AAVDLTN HLEYTLKTYIDTRMKNLAAKM EILKEMRHVDISVRFGKDLSDAI QVLG/SKGALLQLL*MD*R*Y GQNTVWLRRLKL/SEYVSEgni LIAQRNEMQQKLYMSVEDFILE VDESSLNKRKLTQDLSVSLEA VYGQAKEGANSDEILKKFYDW KCDKREEFTSVRSETDASLHLL *HGSKEP*RIKVMQTRR*FQIHI VKYCKRFIQRKGLPQYKLSTR TVLS/SKKQLIEYLKKIPSV DHL LSIK/TDIEKLKSSTQMEIG*KE* FGKSQMILMALKLRK*KKK*LK KGFAEKCRLASRTDICEEKKLD PGQLVLRNLKSPIPLWGHRSNQ STFSRPGHLSEKMTLDLKDEN DAGNLITFPKESLAVGDFNLGS NVSLEKIKQDQKLI EENEKLKT EKDALLESYKALELKVEQIAQE LQQEKA AAVDLTNHLEYTLKT YIDTRMKNLAAKMEILKEMRH VDISVRFGKDLSDAIQVLG
8236	38604	A	8291	1	325	
8237	38605	A	8292	1	593	
8238	38606	A	8293	1	2013	

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8239	38607	A	8294	2	1427	LLARGAGRTNPAPPLMSCGPW GKFLKCCEVYKSGPYKVQ*EEI TIHSRAEAESTYQIKYEELQTLA GKHGDDLRCAT/T/EISEMNQNI SRLQAETEGKKGQASLEAAIA DAEQWGELAIKDANTKLSELE AAMQRAKQDMA/RQLGEYQK LALDIEIATYRKLLERGEESRLES GMQNVSIHKKTTSGYAGAPARI VLLQNELLSLEVGVKLGHPGTG KGEELGAPYSECSFGLCRRTVM LTQAPSSVVRSRNSRNHTVNSG GSCLSASTVAIPAINDSAAAMSA CSTISAQKRTCCTACEPARKYK DTASHQEPAVCQPACQLETADP KGGGV LALPQPPSPGMLCWPY CRAHATDYFLANFFSEFPCHFL HRAGAAQTQATGDGMEHGQS RELPRKAPREESETSEEKSPNK WGPVSKQKKQLLDILTTHIRPT RGNAYTGLSTRKWKPRSEENA LMQPNKKDEKGTLTQKLGL
8240	38608	A	8295	301	462	
8241	38609	A	8296	2	825	YPPSPPPGRSAAHVSC TLYRTTP* WPDQRS AAPPTAWAAS*SPSAR RRPSAESMVPREPL*YRPSAATS AATPAISPARALGAGAPCPLFR RRSGPFGRTSAIRPPSSAGKAVL FPPHGRPVWPVGR LARYATAS GWGAHI*ASSGASE/PAVVSVLP AGSGASPFHSASWDPPAHPAAA ASAAAVIPAL*RSGDRPPVLSFQ PLFWFLIRGDNVSF WLLRGLP CPSQAVTTRHRS LQKEKLKRN KSCVNFMQSQVSVSKYSNLVK HHHFCIRPL
8242	38610	A	8297	3	251	
8243	38611	A	8298	208	307	
8244	38612	C	8299	18	197	
8245	38613	A	8300	1	1866	

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8246	38614	A	8301	2	2558	FEVLWSDSSITSVTKSSSEVTEFI SKLCQLYPEENLEKLIPCLAGPD AFYVERNHDLDGLRYLASLP SHVLKNDHVRRLSTSSPPQQL QSPSPGNPSLSKVGTVMGVSGR PVCVAGIPSSQSGAQHHGQHP AGSAAPLPHCSHAGSAGSALA YRTQMDTSPAILMPSSLQTPQT QEONGILDWLRKLRLHKYYPV FKQLSMEKFLSLTEEDLNKFES LTMGAKKKLKTQLELEKEKSE RRCLNPSAPPLVTSSGVARVPPT SHVGPVQSGRGSHAAELRVEV EQPHHQLPREGSSSEYSSSSSSP MGVQAREESSDSAEENDRRVEI HLESSDKEKPVMLLNHFTSSSA RPTAQVLPVQNEASSNP SGHHP LPPQMLSAASHITPIRMLNSVH KPERGSADMKLLSSSVHLLSL EERNKGSGPRSSMKVDKSFGSA MMDVLPASAPHQPVQVLSGLS ESSMSPTVSFGPRTKVVHAST LDRV LKTAQQPALV VETSTAA TGTPSTVLHAARPPIKLLLSSSV PADSAISGQTSCPNNVQISVPPA IINPRTALYTANTKVAFSAMSS MPMGPLQGGFCANSNTASPSR HPSTSFANMATMPSCAPSSSP ALSSVPESFYSSSGGGGSTGNI PASNPNNHHHHHHHQPPAPPQP APPPPGCIVCTSCGCSGSCGSSG LTVSYANYFQHPFSGPSVFTFPF
8247	38615	A	8302	2	266	YCGPL*SVWVARNPPGFAFVEF EDPRDAAGVV*ELDGRTLCPA PSWGHPR*DDYCRRGLPPRRRP PRRRNLSCSRSLYSPWTLSL
8248	38616	A	8303	37	535	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMHRDSCPL\ DCKV YVGNLGNNGNKTELERAFGY GPLRSVWVARNPPGFAFVEFED PRDAADAVRELDGRTLIGCARV REE\LSNGEKKK/SRNRGPPPS\W GRPPSENDNRKEESFPPIRRSP R\RRSFS\RSRSLSLF

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8249	38617	A	8304	2	668	EIAERRITQPAPPGPSRPSGPGPA GELGGPGTGRALCPADNGGLC CGCPLAVP/GPLAVPR/ALKPQR TSLSHPTSVTNGGRGVSQPGPR RHPGLPTQASTKPPQSRRDAAP LGGAGRGGPGSMAAARTPRGG GH*GVDGPGRRPRDASRLGRLF RPRSADPVP*P/PVAIGRDLP PDDNGQR*GAWKVSE/CPERR RVERLAAIGRLVFILPDFAVGRE
8250	38618	C	8305	101	183	
8251	38619	A	8307	329	399	RERET*SSINTTFIPGSVLQPDAS PSKTGTLTSIPVTIPENTSQSQVI GTEGGKNASTSATSRSYSSIILP GVIALIVITLSVFVLVGLYRMC WKAHPGTPENGNDQPQSDKES VKLFTGKTISHESGEHSA*GK
8252	38620	A	8308	192	537	KFPTSTPENGNDQ*PQSDKESV KLLTVKTISHESVILNQNMDEI TEIEFRIWMAMKITENQKIETHS EESSEFNKTIQGMKYEIAILRKN KTDLTTELKNSPQEFHNTLEVL AE
8253	38621	A	8309	1	789	
8254	38622	A	8310	1	423	EDIWFDDVDPADIEAAIGPEAA KIARKQLGQSEGSVSLSLVKEQ AFAGEELEVQKEVAEMLKG RILVGHALHNDLKVLFLDHPKK KIRDTQKYKPFKSQVKSGRPSL RLLSEKILGLQVQQAHECSIQD AQAAMRLYVM
8255	38623	A	8311	1	1077	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNKKKKRFWKSKA REVSKKPASGPVAVRPPKAPE DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGVPSGSKMDRRAPVPR TKASGTEHNKKGTERTNGDI VPERGDIEHKKRKAK\GQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKHLTRALALDCCEMVG VGPKGEESMAARVSIVNQYVK CVYDKYVKPTEPVTDYRTAVS GIRPENLKQGEELEVQKEVAE MLKGRILVGHALHNDLKVLFL DHPKKKIRDTQKYKPFKSQVKI QDAQAAMRLYVMVKKEWES MARDRRPLLTAPDHCSDDA
8256	38624	A	8312	3	640	

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8257	38625	A	8313	1	1274	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNKKKKRFWKSKA REVSKKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGSVPSGSKMDRRAPVPR TKASGTEHNKKGTKERTNGDI VPERGDIEHKKRKAK\GQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKQLGQSEGSVLSLVK EQAFGGLTRALALDCEMVGV GPKGEESMAARVSIVNQYGKC VYDKYVKPTEPVTDYRTAVSGI RPENLKQGEELEVQKEVAEM LKGRILVGHALHNDLKVLFLD HPKKKIRDQTQYKPFKSQVKSG RPSLRLLSEKILGLQVQQAHC SIQDAQAAN*GCYVMVKEGVG RAWPETGAPCLTASRPLQ*RRL SSPALLAACPPRLQRQC
8258	38626	A	8314	2	414	
8259	38627	A	8315	1	621	
8260	38628	A	8316	1	885	MGEKPGPLLFFSSAKPKNPQEGE HKDEGDHPNNSFSPCSAHDHRR LQKHFAKIRDSTSGGKMKVN GAPREDARPVNKGTYLVSTGG QTVAF TTGSWDQDDSESSLGC QEDSTALHPTSTSPGPSETVPPS LLPEATKRLLSLDFESFGQTQR NLSCPLCPAGVWQEKTLCEWR DAGGNRQAGVPQAPCMKSNN ALIVILGTVTLDAVGIGLVMPV LPG/SPALLQRQAEESPGRRQTG /RRVTTPPTASAPVAPMTAGAC RSTSPKFETGAPVGAR*RSMGR PGRMPGL*IKAPTWCPOVGRLL PSLLAPGKTTQSPA/SGCQEDS TALHPTSTSPGPSETVPPSLLPE ATKRLLSLDFESFGQTQRNLSC PLCPAGVWQEKTLCEWRDAGG NRQAGVPQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDFRGRPVLL ASLLGATIDYAIMATTPVLWIY
8261	38629	A	8317	1	396	

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8262	38630	A	8318	186	2123	CPAHCWQEAMLSAWRLVMSP GGPCTQHPAPACHPSVLTTPRK AGEPRP*WPPCPAWGPLADSSK PHRWRPKPPASCRPLVRRPWGP QRTLTPTLTSHWRASIR*SWNW TPPSSCFPQQLGAPRLSWPRAPC Q*ERRRNLPWT*STSR*PPPDQ GATMAPSTAPAPLSRPSAPFA VVASSFPETSPERHEAAVRASSS LGTRAGGTSALCPPQQRVSP/HRP PNSPSISIPCMGSKASSPHGLGSP LVASPRLEKRLGGLAPQRGSRI SVLSASPVSDVSVMFGRTPHSP PLAKEHA/AAAPHSPPTPWWTY PLC*STAAQN/RGSSPPQRTPGH QNSVQPGAASPSNPCPATRSNS QTLSDAPFTTCPEGPARDMQPT MKFVMDTSKYWFKPNITREQG CPGGAVSISDSRIVPAIELLRKE EPGAFVIRDSSSYRGSFGLALK VQVPASQAQSRPGEDSNDLIRH FLIESSAKGVHLKGADEEPYFG SLSAFVCQHSIMALALPCKLTIP QRGCHTLYLSSVSVETLTGALA VQKAISTTTERDILPTPTVVHFK VTEQGITLTDVQRKVFFRRHYP LTTLRFCGMDPEQRKWQKYCK PSWIFGFVAKSQTEPQENVCHL FAEYDMVQPASQVIGLVTALL QDAERM
8263	38631	A	8319	15	909	LHVSHPGHADARGGLLQPCAA PPLWLCRIQCPRWFQTPSQVF YHAATEHGGKDVPYQGCLWE GCEPFQRQRFSFITHLQAANCR/ EAQ/RSTPRAQKAIVNHPSAAL MALRRGSRNLVFRDFTDEKEG PITKHIRLTAALILKNIGKYSEC GRSWPRASRYQQGHQDLFILRS DLPSQVFIRDKLMERRNRRTGR TEKARIWEVTDRTVRTWIGEA VAAAAADGVTFSPVTPHTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEVTYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS

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8264	38632	A	8320	189	4419	KPGLFP*RVY*EYVFRLSQSLGE FHQF*FKRGQY/ATTSSPPFSPW ANIIRKATRC*CRWRFRFIMPFV MASMSA/GMLNELQQYCDEW QGGAAVVAQHVAPPPGIVEIDS EKFACQWLNAHFEVNPDCSVS RAEMYSEYLSTCSKLARGGILT STGFYKCLRTVFPNHTVKRVED SSSNGQAHIHVVGVKRRAIPLPI QMYYYQQQPVSTSVVRVDSVPD VSPAPSPAGIPHGSQTIGNHFQR TPVANQSSNLTA
8265	38633	A	8321	27	674	GPQNTMPPPSPSVRVQQPNSS QPSPFSGSSQPGDPMRKPQN MCLWQSCKKWFQTPSQVYHA ATEHGGKDVYPGQCLWEGCEP FQRQRFSFITHLQDKHCSKDAL LAGLKQDEPGQAGSQKSTKQ PTVGGTSSTPRAQKAIVNHPSA ALMALRRGSRNLVFRDFTDEK EGPIITKHTPTNSCP*Y*KISGKY SECGSADWLKETMENNLSSA
8266	38634	A	8322	16	341	PPGRGSAHPAARQLQTPGSAAP LS*HQGPASRGTPPGPIKARAP SKSRARGLRAAQRARLSARAR AGCA/PP*ARGAARKLGAPGTF QETLPPGTRDRKCCSGDAVVH
8267	38635	A	8323	1	400	MAEGMAMLRWTRLGTWPDDS FDEMDSLAVQQYTQQNIR/AQ DCSNTDKNLEPPEGQDADCHG F*APRWHCASYSVASSEFAGDD RRI*IPLDPWVKKFCECWCSGPT PFRE/CPRELN*HLKDGCSCRYL RARN
8268	38636	A	8324	3	179	ISWSPSLLGQTAALCANGAGP AGTPPGRGPVSARFGRGAAC VCSPSPSPLAPLSR*RFVMW WQEA*RRGPRLPLLSSLPAAAG SGRAARAAAELPGGGRAGAR/P L/LLTPAQVQGESARG/AGAEG GRGTPGP/GCPLPAGRSLCQPG PRSP*TAALCANGAGPAGTPP GRGPVSARFGRGAACVCSPPS PSPLAPLSR

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8269	38637	A	8325	1	1744	DFQERLSMKDQLIAQSLLEKQQ IYLEMAEMGGLEDLPQPRGLFR GGDPSETLQGELILKSAMSEIEG IQSLICRRLGSANGQAEDGGSST GPPRAETFAGYDCTNSPTK\V EAPGTES/DPRLPTVLESELVQRI QT/LSQLLLNLQAVIAHQDSY/V ETQRAAIQEREKQFRL/QSTRGN LLEQERQRNF/EKQREERAAL EKLQSQL/RHEQQRWERERQW QHQ/ELERAGARLQEREgear/ QLRERLEQERAELEERQ/RQAYQ HDLERLREAQRAAQPPS/HPPSF NGEGLEGPRVSML/PSGVGPEY AERPEVAR/RDSAPTENRLAKS DVPI/QLLSATNQFQRQAAVQQ/ QIPTKLAASTKGGKD/KGGKSR GSQRWESS/A*AGPPLRLGLEG ATGQALAAAGSQEIRDTCAILW RGNQKAQLASWLRPPHTGPVW SPGPKLR*STLHLLTSTLKTVG WPGALERARARRQRSLATWD QHSRTGTASF DLKQQLLNK/L MGKDESTSRNRRSLSPTCPGRH SPAPPPDPGFP/APSPPPADSPSE GFSLK/AGGTALLPGPPAPSPLP/ ATPLSAKEDASKEDVIFSKRAV TQANH
8270	38638	A	8326	147	536	WAQEGSGRNTHQQYKILDVML KGLFKVCAGRGQLMAGPVFDL GTDG*TGVLKDG\WSALPRPV LRTTRSSLAAPSLLF/YYFDHNS NWNLLIRWGIFCNQTGVFNQ GPHSPILSLVRTGVEVAREPSVG
8271	38639	A	8327	59	339	
8272	38640	A	8328	43	510	LLLWGLRELTIMVEDEGEQM SIWVLDKDLGAPHLVLVGSML TARSRCWTPWRSSHATAATSE GEGWGVGVLIADRPGWASDEG DGE GGGGGLL TSAEFGELAAV GEAGSAHPMF SFRPRYSTWCLT HIGQGGLLELLT*STRSASQSAG VTGMSH
8273	38641	A	8329	98	493	FFYFLFIYFFETESRSVTLAGVQ WYDLCSLQPLPRLKRFSCLSLP SSWDYRHPPHPANFCSFLVVT GFHHLGQAGLELLTS*S/IPSSAS QSAGITGVSHHARPGPLSLANN PRSQTRTSATVCPEQLGLD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8274	38642	A	8330	3	328	HSAARRPSSRRSSPRPETSCANS VNAGWNQDPHTHVIRFVRSMAT AGSTRYR*GLHAAPSPPHPRRP RSPPGAE*A/RREARSLKR*SPPC HPTKKATMCRCIIYVPLIHK
8275	38643	A	8331	24	593	FEQQWGWAAAAAPPKGAHTR *TGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRPPR *GPSRR*VRSARPSRA*RAPPGS HRPGCGAAAPAPAASAPARAP WAGADSSAPRTAD*SLPTRVC CSLSALHTGSESGDLGPGTQIEG KQNYSVTVWFLAR
8276	38644	A	8332	24	832	FEQQWGWAAAA/CSSRQSTYSL RTGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRP/TS MRAFSPLSAIRSPKSGRDAHHQ ASHRPGCGAAAPAPAASAPAR APWAGADSKRASSYSRLEVLR VIPEAAAWTSAGSFRT*/PENLPI PVNEIMLLSNCPGRMGSVPLKR RLILGVRVLGERGPG\AWCTCG PPTSMCTGALDLVSWAGRGMP WASQRR/PQGDRVRDKPGTCFL PSAVPVLPVCV
8277	38645	C	8333	153	269	
8278	38646	A	8334	615	1275	QKRKTFNTTKCYNKEKGSWPR WPTGSS*CAQLSWRGMETSK YRTF/ILKHPGQEIPS\EPTPPGP/S SLTCRATWSLSRAAPQPHMKPR EP*ILSIYVAPSPSTIEKPSIGERF AIFITLLMRNGDLGEASCDVAK ALRQPWGKAQVEKNQLSQTKC PAMWHFESQNPALLIVRECLEG WKAYPQSTKEERLLHPEGAG FTSSSQEKYVRVRGQRLWPTPF FSLQMIDRKERHLIPPVNIKKR GVGQDGRLEAVSVHSSHGEEW KGQVNTPESTETSRSGDPIMNP LHQGLKSDMQSYMESQQSSPS ATHEAQGALDTQASWKKQQQ LRKSRAISSPADGVQHGHEA RHCHDVLKRDRQTSWPCKMSS LAEVVAADTWLLDNGTMQA TGRAAQVREQGKGMDLGQYIS CYLMTLSRAIKQKENKKVCFQ RLGKPRVKTASVQKK

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8279	38647	A	8335	423	998	PPSAVPHDHSSPART*\PQSLSVI TAELEPV RAPSLIAFFHGHSA MCPFRWRYSRFSLKQQRILAH PVNTFGIDRRHTIKFCLSAKQRP YPTITIRWQLSDNMVYTEKH IRI ISVTTAAAIHPVIGSFPIPG/PI RALSTFLPVHIQRL*\GVHFPSF SCRAGAGVL*SASWRQQVQ RQ EQPVLRRRQQ
8280	38648	A	8336	2	218	HPSPSPGLKHRSSLGSAV PNPLL LPSGSFSLLPAGHSHGDGPS AS QMH*FQNQTHPVP*PDPAS LPA VQSHQ
8281	38649	A	8337	76	129	
8282	38650	C	8338	1	410	
8283	38651	A	8339	651	741	
8284	38652	A	8340	1	612	
8285	38653	C	8341	1	729	
8286	38654	B	8342	1	313	
8287	38655	A	8343	705	990	TRSSCWGKEASLGDGNRG VVA ALHHFTGAAARQHSGSPL ERGP HPQL*SPRS*VEGHWLEI/L QA* S*VLPQKQPHQPARCWQL LSH WLPRPALLC
8288	38656	B	8344	1	588	
8289	38657	A	8345	220	678	MNAIPVASPCMVCSLIVH VLGS RPM*PW*RPTRFQWSEVQ E/V MELTTMRPRQPPPPPPPP P*QQ QQQQQQQQQQQE*L*LA ATPR APGTLAQGSLTPSQIFSA* RLKT DAAGSPGSPQTITDAELR VTLT VEGKSVPFWAVLPQSFTD SPH
8290	38658	C	8346	1	411	
8291	38659	C	8347	1	534	
8292	38660	B	8348	1	774	
8293	38661	B	8349	1	705	
8294	38662	A	8350	1	297	MPGHQKAPLRPAVSKK\ES MLE KGKIK*LLKPEGILPISEPP SNRIF ACWGKPAWTACCNSLRARR* R AISCCPSHW*KEKPPWRPI RKP PP LPAWPIH
8295	38663	A	8351	616	988	DPQLQAGSGHIPGRNVC PGERI CWRGTPD/SDPSTPTY*PP LEKE VAQGRDLIHASGCLWS*IP LEA LQGPQGCPQFSQVCCIPV IPTVE MKQGRQQLASDFQDQDLE FY EILSWKPGILIIPP

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8296	38664	A	8352	1	1668	MELVPEEATAVSARAYTGRWP LDAAARTILVTAPGVGHTNIVL CGQASLDAYIKSICLKKEGRKE GKKKGRKERKRDYGGKEKK RKKGRKKGRRKKEKKKKEREK ERRKEEKEGKKRKKEKERKKE KERKKLSIGKGVVYCLSSNTQK KQVSQTKIRVISTILFILAGCIVF VTIPAVIFKYIEGWTALESIFYV VVTLTTVGFGDFVAHPSDHL CWVIVTCKGKYLLPDSPQEKAT DFSGVAQKRNEPQKPL/IWC/W ELRSYPTALMMQERVV*KEKP KAAAPNRRGLGTEKLEF*R*EV AAAVEPHAVLSMIGDWLRVLS KKTKEE/VCRPPLFKSPSPNLRL LGVAHHVGEIKAHAAEWKAN VTAEFRETRRRLSVEIHDQLQR AATIRSMERRRLGLDQRAHSLD MLSPEKRSVFALDGTGRFKASS QESINNRPNLRLKGPEQLNKH GQGASEDNIINKFGSTSRLTKR KNKDLKKTLPEDVQKIYKTRFN YSLDEEKKEEETKMCNSDNSS TAMLTDCIQQHAELENGMIPTD TKDREPENNSLLEDNRN
8297	38665	A	8353	1	418	
8298	38666	A	8354	251	394	GAQVPTLLVGVLTVTISTVQNL AISLLGKAK*GEGILSVSGRMY RVL
8299	38667	A	8355	107	250	EEGHLLDPRMVDPMMACTM QLEKLQTLNASL*KQLGGGLYL AKPQG
8300	38668	A	8356	331	893	SITENCENKNPIPHVENKDITK YNSLKLPEHIRAEVMQPSKLD* VNP/LPSTCKERFVMQSHLART VGSSICNL*MSP/CFGIW*QLAE ANPAKCFP/GCWKTNSCTSSML CSKYVTPNGTVV*ITREGPISDD SILRFLLSMETKRMQGLLVSTA QPKGHQSSYQLHKGPEHIERS SSQPPVAAFGIH
8301	38669	A	8357	2	416	SGFRYGSDIVPFSKVDEEQMKY KSEGKCFSVLGFKSSQVQRRF FMGNQVLK\PFMEDLRQYMFSS LKNSKKYAPTEAQLNAADALI DSMSLAKKDEKTDLTLEDLFPTT KIPNPRFQRLFQCLLHRLHPLE PLPSIQQ
8302	38670	A	8358	1	2130	
8303	38671	A	8359	1	1152	

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8304	38672	A	8360	1	320	FKGTAAPWPLSFARAAAGRQA GTDTRPSLRVRFPRERSARQKG RGRSVRLSAKSPPAKVETKPSG GSRTA*IFRQRSKQGKMGAKG KQAKWLLILRALICFSLSER
8305	38673	B	8361	1	1231	
8306	38674	A	8362	1	2276	GGRPKRLRTGNMVRSGNKA VLCMDVGFTMSNSIPGIESPFEQ AKKVITMFVQRQVFAENKDEIA LVLFGTDGTDNPLSGGDQYQNI TVHRHMLPDLLEDIESKIQP GSQQADFLDALIVSMDVIQHET IGKKFEKRHIEIFTDLSSRFSKSQ LDIIHSLKKCDISLQFFLPFSLG KEDGSGDRGDGPFRLGGHGSPF PLKGITEQQKEGLEIVKMVMIS LEGEDGLDEIYSFSESLRKLCVF KKIERHSIHWPCLTIGSNLSIRI AAYKSILQERVKKTWTVVDAK TLKKEDIQKETVYCLNDDDETE VLKEDIQGFYRGS DIVPFSKVD EEQMKYKSEGKCF SVLG FCKSS QVQRRFFMGNQVLKVFAARDD EAAVALSSLIHALDDLDMAI VRYAYDKRANPQVGVAFPHIK HNYECLVYVQLPFMEDLRQY\ MFSSLKNSKKYAPTR/EAQLNA VDALIDMSLAKKDEEGQTPL KDLFPTTKIPNPSIFRGLFQCLL AQELLHPRIEAFYPPISGRHIWE YAGILPAEGGQRKSSGFPLS*N* RTLFFL*FEAKEKGFKWTAQGI FQGQPWKVGPTAKKLKTGARG EPTFSVSSLAEGSVTSVGSVNPA ENFRVLVKQKKASFEEASNQLI NHIEQFLDTNETPYFMKSIDCIR AFREEAIKFSEEQRFNFLKAL QEKVEIKQLNHFWEIVVQDGIT

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8307	38675	A	8363	624	1992	GRKVVVVLPPPLGNQSTPGGIC LSAQLPL*RD**SASARCSSPGS *TSPPSYFLPDPRGPGRALQRF RSPSSPGGNPA\SAAPSPRSKLLL GPPGAAAAATAAAAGAKPELRH RLPPSSATTASRVACHFLLAS AAATPAFSPPPPPPASPSQRT KEVQRAGKAAESCPAAPELLGF GGSRDAGELGGLSSDACV/PD SSEPGVRRPARRRTLAAHALTHA STHTRTLPGSCARVAVPVALCK GGFT*PIFSPQYVTNTYPGEEGA RLGVLLIGREQTVSAILLGGSRSK APTTTVAVASAPPVTAAGR\TP HASIRIPRMLSKSPPPQAL*K GVMAQAQCPPARRGQAGLEGT \GFGKSPTRPHQLTAASSPCNGL IRIRQGQGGGKGRRWRGSSGDP GAWYCFRGRRRGPSCPSLRTAT LIPGLGGHGGGSGDAASPLLGT RDGGPEAHLGKE
8308	38676	A	8364	123	248	
8309	38677	A	8365	1	540	MLEALGALNKPESSRPLIPELHL ASTAAANLGEHPNQRLKFAS QETPEESANAVPHYHKLCNRVS HVWGNRRGQHIRTMDNPRP GKTTFV*IIVSPLPALLALTHSW DSQVRPAVL/QP/YSHGTGTP*W RSSSPCAASST*KSPYP*CH*QR LSQSPSA\FRPTLRRLSRSTRCRS WRRK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8310	38678	A	8366	31	1429	RETRSCWAHYHAESSKHQKAK LKDSRKARRSIELIGPGSSQKGG DICSLIHLSSKLGILCYSKTGNM GGWEGGMQLRVSSSENSMGKSS RERAAADLPQGSCWHELPGRLI NTRISLKPRHVWNLSSVLCQVV KKVKSMQMFHMPITSAMQGD RLGICVTQFDPKLLERGLVCAP ESLHTVHAALISVEKIPYFRGPL QTKAKFHITVGHETVMGRLMF FSPAPDNFDQEPILDSFNFSQEY LFQEYQLSKDLTPAVTDNDEA DKKAGQATEGHCPRQQWALV EFEKPV/YLPSAVPGDWLQARC GHS\PNTCRLAFHGQSCSTG*RT GTTPTASCPG*RCTS*STSMGLV ERAMDDYSVIGRSLFKKETNIQ LFVGLKVHLSTGELGIIDSAFGQ SGKFKIHIPGGLSPESKKDPDTP PSKTGPGWPVGGQPGRRRSPSG ANPHKMGWLTRPFKRYVFDTH KRMVQSP
8311	38679	A	8367	3	119	RSPREGGGHRGPSSGGGRCRRR PGWAGNEAM*PDRRARVVGIE VPAAEEGGAAVAQDGLGMKR CSLLRDLL
8312	38680	A	8368	3	389	SFATHTAGPQPPAA/PAPKRMA ARASWGRNPPRAPVRTSAAAA RAAGTRRPAPARVACPLPAGPG SPRRPPRAARTRRARRRPGPGR AAQQSAGRRWTPAPAPSGASF AAPAAGSASPPSHRRSAPGGGS TQSSLLSPSSSALHSSPPSRPWA ARHERSSWS*/PRSALPPTSTEP/ GPGPRRAPVLGTRSCGRGAGQL E*EA*GAA*APPPLGWTP*LLCV HVTLGNAVSHWVSCGAAPPHG GVGVGYRARSPPREGGGHRVPA\ RTREVPPSPRMGWNEAM*PFK* VSSRWPLRLPSRGMAAPRGA AAGGARRVEGWEGASLLSGSA PGSARWPRAAPAPASQVGARC AAGAPCPLRPRVWRRGAVGAE NAPSELAASTPAG/GGRGAGSG SSDLAGRGAVAARFPGG*GHSR QQHGAEKDGGQGFLGSQPPPR SCAHQRRRGACSGNAAPSSSAR RMSASSRSRQPEKATQSRNSA RSSAARPRSRSTAVSRAQVDTA SSCAFWRVFCSSCRRFCESAEP TVSTRWW

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8313	38681	A	8369	3	1130	LDFQHHNYKAMRKLMKQVQE QCPNITRIYSIGKSYQGLKLYV MEMSDKPGEHE/LGYWHGEW GEVGTGQGPRHEPAASPHVSPG EPEVRYVAGMHGNEALGRELL LLLMQFLCHEFLRGNPRVTRLL SEMRIHLLPSMNPDGYEIAYHR GSELVGWAEGRWNNQSIDLNH NFADLNTPLWEAQDDGKVPHI VPNHHLPLPTYTLPNATVSILR AAVEVLWGADPCLCLPLLTCP IQVAPETRAVIKWMKRIPFVLS ANLHGGELVVSYPFDMTRTPW AARELTPTPDDAVFRWLSTVY AGSNLAMQDTSRRPCHSQDFS VHGNIINGADWHTVPGSMNDF SYLHTNCFEVTVELFCDMFPH ENELPHEWENNTDA
8314	38682	A	8370	1	2229	MWGLLLALAAFAVGPALGA PRNSVLGLAQPGTTKVPGSTPA LHSSPAQPPAETANGTSEQHVR IRVIKKKKVIMKKRKLTLTRP TPLVTAGPLVTPTAGTLDPAE KQETGCPPLGLESRLVSDSRLE ASSSQSFGLGPHRGRNLIQSGLE DGDLYDGAWCAEEQDADPWF QVDAGHPTRFSGVITQGRNSV WRYDWVTSYKVQFSNDSRTW WGSRNHSSGMDAVFPANSDE TPVLNLLPEPQVARFIRLLPQT WLQGGAPCLRAEILACPVSDPN DLFLEAPASGSSDPLDFQHHNY KAMRKLMKQVQECPNITRIY RIGKSYQGLKVYVEMSDKPG EHELGEPEVRYVAGMHGNEAL GRELLLLLMQFLCHEFLRGNP RVTRLLSEMRIFLLPSMNPDG EIALHRSS*LVGLSEGRWNNQS IDLNHNFADLNTPLWEAQDDG KVPHIVPNHHLPLPTYTLPNA TVAPETRAVIKWMKRIPFVLSA NLHGGELVVSYPFDMTRTPWA ARELTPTPDDAVFRWLSTVYA GSNLAMQDTSRRPCHSQDFS\L NGNIINGA\DWHTVPG\SMNDFS YLHTNCFEVTVELSCDKFPPEE* ICPKEWE\NNKDALLTYLEQVR MGIAGVVRDKDTELGIADAVIA VDGINHDVTTALGPGIWRLA* PPGDYIMVDLPSSSEGYHSVTRN

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8315	38683	A	8372	409	517	HFRSAGVCW*PPPLSVHGPR*HFRSAGVCWSSTPDPVCLGITSRGCRTAKIAAFSFL
8316	38684	A	8373	957	1230	
8317	38685	A	8374	1	2658	MVEEVLLDNILKSVFRLGSILPITFSFPSDSQGPLLQVCRSLLEIHSRPCLPGYHQWRLQNSKDCCLFLPLEASSQRGTCQMPAGALFYKVSVDPFWEVSSSQETWGSGIHLRRQSVPYQSSSAVLGDLLFSSEPACKNKSAEAVPTAAPSPRDA LSREEESREAVWPQRLSHAPMGSAQLELPGGFVYTVRRKLPTQASVMLDAPPATKLEHPRSSSDCCVGSKNFKPVDLSLLGSMGVGSVELDHLAPWLQPPFQESERFCLSGVPVSPPLSEEINHALPKATVMASLGAVARKDNADSLHVPPPTPLFASRPVTALKYWQAPREDLQPFTRTVLHWGKGNDQTFWGLVDTSSSELTPNDPKHHYGPIIKVGAYGGQVINGVFAHIQLRVNPMGHWTRPLVIFPVPERKISIDILSSWQNHIGSLIGRKTDGSWRMTVGYRKLNQVVTPIAAAVPDVSMLEQINSPSECLKMSHQITMRPELPIMNWVLSDPSSHELGYAQQHFIKWKWYICDRAPAGSESTTSPFITQWVHEQSGYGDRDGGYTWAQQHRLPLTKNDLAMAT/AECPISQQ/QRPTLSP*HGV/IPRGDQPATWWRVDYIAPLPSWKGQRRFFTRIDTYSGYKFIYPAPNASAKNTICGLMECLIHCHGIPHSIASDEGTHFIAKEVQQWAHA YRIHWSYHVPHHPEGWGKVLQ
8318	38686	B	8375	1	3258	
8319	38687	A	8376	3	196	DWESCQNQC*PQQPRLHGTHWDPC*DME/CPSVCPQSPCPSPLRDQWTIPCPDPLSPQTMAAGRWD
8320	38688	A	8377	248	423	
8321	38689	A	8378	407	683	LSSYCVHAGCYPREAAMRMISFSPSQ/RWKPFGESWRPPARRGTCTPGAHPRPSPRAAGPAHRP/PPP/PSELPRAPQRPGRNRRPGNSGPV

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8322	38690	A	8379	11	888	TGKLHTSVICNSTELTSWDSRR LFLKGKPLLSAGAGVNVMPST APFPAPCKGSLRGNPSRPTHPS/ RSPQLERDTGGASFRVDEGEER GASSGGS\RDTEGGSGAVPFGE SWRPPARRGTCTPGAHPRPSPS PRAAGPAHRP/PPP/PSSELPRAP Q\GPEAPTLGQPHGRGLFPPLFK LSKLYWPLGETRSRPRPRPYCQ SPGPGVTERGRRWSAPRAPGAP RSPRWRRQSGPGALPRPRVNPC IQHGSEASYAPAL*WALRIPQG GNTSSADEPADFTPNQQADQM PCLHSCSCG
8323	38691	A	8380	1	3135	
8324	38692	A	8381	44	2279	RQTVGDAQPHHHPPQPPRPSFP PFPALPCTPAPQLPPSPSCLREEF PSSPMGQTPGTWSSSGGPWTSP PHSSSRRLASPLAPLSVIPSTSQT MARSSSQSQTTTFSPTPTHSSQ ASQAGTLWPWWLRSMTLTSP LVGGPHFIRNTRRSMVNTAC*S SRPSLGLERSQTTGATRPGGP*R SRGSMPTPILPSGPSGATPTKPS SPRTGAGPMPCFSTRAVGCSGT WPSAQATRCSWASLVEMAISK TAH*CPSQCGRGIALIDS*IPTQA SKGCSSTGYTGKKGPTTVSSAC SG*RASLGGPAGAGTRSPALVP GSRDDGTYDSNPSA*VAGASA VGSCAASPLGEEACAAATGPGE SFSEGWHEQ/TS LAVGPGTGAT ELVLPLEG/HSPTSVPCTSRGGP TWAVATYRPP\SPPGCSGTPTSP PWMVSVTPSMGWGTSCWSGP KTGTPPSCFRAAPPRLAQPRPPT SSPLRLST/ASSSLGPVTVQWLL EPHDAIRVLLDNQTVTFQPDHE DGGGQETFNATGVLLSRNGS\G SRPASTAGPPSR*SRSPTSSTPPP ASRPSTRTARRGSWGSGITIQRT TSGCPMAPFPQALRRCFSTL E*PGRSTGQASLARGMTSCLPT SPLFSTHNCKKTAPGLNI*SPTV TEIAHASMTWPWCATQASDFTR GKSVKTTSRTPPSISTRPPSMV VV*LKPTRGRPR*FSTPAMLRM

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8325	38693	A	8382	1	2900	MVWGFTCSTTATLEGQSTAAS SRTSNQDISASSQNHQTKSTETT SKAQDTLTQMMTSTLFSSPSV HNVMETVTQETAPPDEMTTSFP SSVTNTLMMTSKTITMTTSTD TLGNTTEETSTAGTESSTPVTS AVSITAGQEGQSRTTSWRTSIQD TSSASSQNHWTRSTQTTRESQT STLTHRTTSTPSFSPSVHNV TGTVSQKTSPSGETATSSLCS VTNTSMMTSEKITVTTSTG STLGNPGETSSVPVTGSLMP
8326	38694	A	8383	3	468	SSPPLGHPRPISQSCPRPAV VSCSRGPSALLCRPLLPEDAP/ P*GSSWP/EGPLWGPRYP SVSVGNHWSGAGVADE/ PAAPSRPAGARRAPSGGR PAAARCSRRRASRSSR PGPPAGRAGR*ACPA AARSAVA AAPRPPGAP* CGSASSATAPAA APP
8327	38695	A	8384	3	1319	DSSRLCSRRSSRGHTVGLWG QS PGLGTKGRGGGG*EDPP PGTPRGQQDP SHSAKQ/ PPAGLPAGVKWGPS\SSPP SPPP\PAKRELQGRCPKF GRCSEGRRAGDPGPS/ GCPRAKQTHSLGTAVPVV VIYPPVHALSPAANRTL N*NISSQPLGTPPMVPGE/ *HGPRGHA*PRHPLPK DPPQG/PAQR*RGCRSEV QRRPGTLP*GSPP/GNSH NGLPAMPPR*PPTAR/ PQFPNPQDPRPLGQSSS EPLPRCPKTLCKTRHPDL RGRGKQPRGWAQVPPGEV FGGNGA QLEA*EGARMS ASPP*SLESSD TTASPP SQGLFTAQKGLWGPQR RLGALWLGRRESEKTS WRRLQSQVYWSCREEVEK CSRQGARGLQRRGWEN VLGKSGSASECLSCPFC ASLLAMPSGCPWELSK VAQCFPLKTGHPGPQEG SNNLKVTQQS

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8328	38696	A	8385	1	771	HSLIHSLTHSLPSPPVQSPA WLR PLCLSAPAT*ATA/CRVCLPGSC DSCSDSWQVDDCPESCCEPPCC APSCCAPAPCLTLVCTPVSCVSS PCCQAACEPSPCQSGCTSSCTPS CCQQSSCQPACCTSSPCQQACC VPVCCCKPVCCVPVCCCKPVCCCKP ICCVPVCSGASSSCCQSSRQPA CCTTSCCRPSSSVLLCRPVCRS TCCVPIPSCCAPASTCQPSCCRP ASCVSLLCRPTCSRLSSACCGLS SGQKSSC
8329	38697	A	8386	1	453	AQSLGRARPWRGASSGRVPDS\ RLE*TPTVCLA/PEHGIVAATAS LGTFPLTQWEGHNGCYQRS LFP PQSMPTPPCPASETP/PVFRYRPP PSPGSSPRSITAHVPVLGS\SVNP PHPEVWNL PCTWKRLATSLQQ KFTFGPKLGITNVDS DLS
8330	38698	A	8387	39	630	IGTWRFGGSDRQEGQSRQGNC EANDWPVSTALAKPRGATGK NKSPGNDPAAAIA TAGAAATA GPGSPCSLQN/RPHLLPFIS*APP EG*TPSTQDRPWYSAGAA*ASV KCRTGAVQKQLLL*NRRRFPGS PAPAQTADPGRGGGRGTGS/GV PSTGSSSDWQERPWP CGGMEPP RLRCLLRCSGSIHSPTALQSLRN HQ
8331	38699	B	8388	1	2673	
8332	38700	A	8389	10	281	TTSDPYHPAPEIGLG*SPN/GGP MQGDLPGASGKEVSFL*GNVN EDIHNSGCWQPSCDHLARQP KNKAVTMETKKRQKDTGSSLF SSSCS
8333	38701	A	8390	3	416	EYGQQCQCHKRPRGPF GFHSPG PRGGSYISDL SGQESPEAGGFP PRISALRPKSNC SFLRPRGRGS* YPAAGRPRAPGGPALQLSPR/PH PAAPPCRAAPQPKPPRRDVEPA P/PKLHPPP/GGPAPRRQGQDLP GRLQP

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8334	38702	A	8391	98	1286	TMPPTRFLAHLDPQAYVCFCCV EGKERNLSRSKHTSPHSSTPAH LLSKPPRSSEVVYHSQVLPGTP RPTSQLHLELVLPVFARLPGHR GIEREQSSPYS/RRGHHRGYTEE D*VNS**DGVEPYGKVAAG PQRGRGYCCPWRRQRHGRHR/ RRPPIALQRRQ/PARTPSARPPIA LQRRQ/QARTPSRPPIALQRRQ RHGRHRPRP/RHRSAEKTTART PSRPPIALQRRQRHGRHRHGH/ HRSAEKTTARTPSRPPIALQRR QRHGRHRPRPPIALQRRQRHGR HRPRPPIALQRRQRHGRHRPWP PIALQRRQRHGRHRPWPITLQ RT*RHRCHRHGHPL/PLQRT*Q HGCHRPWPPIALQRT*/PAWTPL AMATHRSTKKITAWTPSRPPI ALQRT
8335	38703	B	8392	128	457	
8336	38704	A	8393	348	1355	GNEGKAGTSSCWPDKPAAPAV ASSLAS*GASNSTPSAAGSTVA SASWLVESWSPGVTVVGVTEG SSKLGPMLLSTSTPDEAWSPSS CLLLVAPGVWLLPEAGFLLGIH SQGAAPPSPSSSCFSTSSFLSSS SSSSSSSLPMATPCDLGFSKCG SRLSPPAKALLEDALTPRGGA* AWMRDRASIGADPVWLCPSLP SSFLCFSLKAVCTSSA/PPCYTT GFLSPTQKTKPSKQGLGVCSSQ VSRHPALGQLLQDIAEDKSPPH SGSTICSLWLSSSRAPCDRCTSR PSSKVQGYLCQQDSRSRTRAG WKTPTVVGRHVPVKIEKESIRP ANFG
8337	38705	C	8394	154	219	

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8338	38706	A	8395	3	1054	LYLKVCYI*KELFEFSNLYKHPS GEEVWERILRV*DNGGRNI\KL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAIEWITRWP TVSELEMPDLPWFNVEEGIKRL REIGMVEWISHFRCTHPSWKGP EDIPLTNALQNRVFVRAAPASLK SLVIALFCMSDATAGTAVTQL QNLNTMGIIGSRGV RDQVVAL NHQRQVG VANRQGT PR/QRGT KKRTR*PGQAKRPGPKERGTRS HAYAHTSVTTPKNNRHDT RPS QRTPQQKRDAQHQ TETPN TTP NTSRPPSHVSFFRSKRRRRPQ HEERNKRTRTEEEARERNRAN KDDTKRQPPKKTRENRRQLWS
8339	38707	A	8396	140	398	
8340	38708	B	8397	15	192	
8341	38709	A	8398	1	1167	AGTARRAPESSRRRAVAAGHPE TMGKLVALVLLGVGLSLVGEM FLAFRERNASREVEPV\EPENC HLIEELESSEDIDILPSGLAFISS GLKYPGMPNFAPDEPGKIFLMD LNEQN PRAQALEISGGFDKELF NPHG\ISIFIDKDNTVLYV VNH PHMEVHCGRIF*ILREQRSSGY YLA\TIKTWNFFKSVNDIVVLGP E\QFYATRDHYFTNSL SFFEMI L\DLRWTYVLFYR\PREVK\ VVA KGFCSA\NGI\TVLSQTQKY\Y V\ADVAA\KNIHIMEKH DNWDL TQLKVIQLGTLVDNLTVDPA\T GDI\LAGCHPNPMKLLNYPED PP\GSEVLRIQ\NVLSESP RVSTG YANNGS\VLQGT LWASVYHGK ILIGTVFHKTL YCEL

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8342	38710	A	8399	89	1685	KGPLLLSLPCRAGAMAETS\AT GACGEAMAAAE GSSGPAGLTL GRSFSNYRPFEPQAFGASSPS\W RLDGA FSGNERAE GCKVPQEG RLLKLLAG\LTRP\DV RPP\LGRG \LVGGQEEASQEAGLPAGAGPS PTFPALGIGMDSCVIPLRHGGLS LVQTTDFFYPLVEDPYMMGRIA CANVLS DLYAMGITECDNMLM LLSVSQSMSEEEREKVTPLMVK GFRDAAEEGGTAVTVGQTVVN PWDLLIGGVATCSIANQFEFI\M PDSAVVGDVL\VLTKPFRNPGL LFNAHQWLG*FLERWD*S*RW WFSREE\VEL\AYQEA\MFNMA TLNQNC CRV*MHTFNAHAATD IT\GFG\ILGHSQNL\AKQQRNEV SFVIHNLPIIAKMAAVSKRASGT VWGFFQGTSA\ETSGGITGFCLP R\EQGGLAFCS\EIQILPKYGRGS PKAWIVGIVEKGNRTAPDPLTS PRVIEV\LRG\ATAAVLAP\DSS NALLLSLAREIERTEVVWTLPE LSTITDGSQELIVKKFPKKAACI VVPAALSR

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8343	38711	A	8400	30	2391	ARGRPLLAARSSRPCGPRLPFK RAGPAPAAPHRGDQEARWFSG AAPSRLLPPAPRFGPAAIFLSAQ GPPSGAMQPTLLLSLLGAVGLA AVNSMPVDNRNHNEGMVTRCI IEVLSNALSKSSAPPITPECRQV LKTSRKDVKDKETTENENTKFE VRLLRDPADASEAHSSSRGEA GAPGEEDIQGPTKADTEKWAE GCGHSRERADEPQWSLYPSDS QVSEEVKTRHSEKSQREDEEEE EGENYQKGERGEDSSEEKHL EE PGETQNAFLNERKQASAIKKEE LVARSETHAAGHSQEKTHSRE KSS/QFSAA*EAGSQENRPQESK GQPRSQEKSEEGDEDATSEVDK RRTRPRHHHGRSRPDRSS\QGG SFPS\EEKGHPQ\EESEESNVSM ASLGEKRDHHSTHYRASEE EPD YGEEIKGYPGVQAPEDLEWER YRGRGSEYRAPRPQSEESWDE EDKRNYPSELDKMAHGYGEE SEEERGLEPGKGRHHRGRGGEP RAYFMSDTREEKRFLGEGHHR VQENQMDKARRHPQGA WKEL DRNYLNYGEEGAPG\KWQQQG VLQDTK\ENRVEARFQDKQYSS HHTAEKRKRLGELFNPYYDPL QWKSSHLERRDNMIDNFLEGE EENELTLNEKNFFPEYNYDWW EKKPFSEDVNWGYEKRNLARV PKLCLKRQYDRVAQLDQLLHY

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8344	38712	A	8401	73	1922	ILPVPIIP/CRQVLKTSKCPTRQA DLGHCSDPCSYSLHITFPADASE AHSSSRGEAGAPGEEDIQGP KADTEKWAEGGGHSRERAD QWSLYPSDSQVSEEVKTRHSEK SQREDEEEEEGENYQKGERGE DSSEEKHLPEEPGETQNAFLNER KQASAIKKEELVARSETHAAGH SQEKTHSREKSSQESGEETGSQ ENHPQESKGQPRSQEESSEEGEE DATSEVDKRRTRPRHHHP\RSR PDRSSQGGSLPSEEKGLPQEES ESNVSMASLGEKRDHSTHYR ASEEEPEYGEKNRGYPGVQA PEDLEWERYRGRGSEERYAPRP QSEESWDEEDKRNYPSELDK MAHGYGESEEEERGLEPGKGR HHRGRGGEPRAYFMS\DTREEK RFFGEGHHRVQ\ENQMDKARR HPQGAWKELDRNFLNYGEEG APGKWQQQDLQDT\KENREE A*VFKINHFS\SHHTAEKRKRLG ELFNPYYDPLQWKSSHFERDND MNDNFLEGEENELTLNEKNFF PEYNYDWWEKKPFSENVNWD YEKRNLAR\VPKMDLKRQYDR VAQLDQLLHYRKSA\EPDFY DSEEPVSTHQEAENEKDRADQT
8345	38713	A	8402	1	381	
8346	38714	A	8403	1	444	MKLIVGIGGMTNGGKTTLTNSL LRALPNCCVIHQDDFFKVPALA RGVLES LDMEAMLDTVQAWLS SPQKFARAHGVSVQPEASDTHI LLEGFLLYSYKPLVDLYSRRY FLTVPYEECKW/KEKYPQLHSP *SPRPLRWPRVAHVPEV
8347	38715	A	8404	3	421	
8348	38716	A	8405	3	4065	SAPPDVTTYTSEHSIQVERPQGS TGSRTAPKYGNAELMETGDGV PVSSRVSAKIQLVNTLKRPKR PPLREFFVDDFEELLEVPQDP NQPKPEGAQMLAMRGEQLGV VTNWPPSLEAALQRWGTISPKA PCLTTMDTNGKPLYILTYGKL WTRSMKVAYSILHKLGTKQEP MVRPGDRVALVFPNNDPAAFM AAFYGCLLAEVVPVPIEVPLTR KDAGSQQIGFLLGSCGVTVALT SDACHKGLPKSPTGEIPQ

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8349	38717	A	8406	10	580	KQCALLTFICSLPMSFGFAPAIT VTVVN/PRHPLIRDMLRRIKEDE DDKTVLDLAVVLFETATLRSG YLLPDTKAYGDRIERMLRSLN IDPDAKVEEEPEEEPEETAEDTT EDTEQDEDEEMDVGTDEEEET AKMS*ALLTFICSLPMSFGFAPA ITVTVVNHFVLCSTGSGVFRS ENWKVWAESSRGDHDCLDL CSVLCWGRTATGAFSCPAQLIF AVSSSSSVPTSISSSSSCSVSSVV SSAVSSGSSSGSSSTFASGSMFK LRRSILSILSPYALVSGKRYPDR SVAVSNKTTARSKTVLSSSSSLI RRMSLISGCRD
8350	38718	A	8407	1	1967	MTMAAAAVVARGAGARAATA AALRGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSSYASQKK TFEINPRHPLIRDMLRRIKEDE DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTDEEEETG KESDDPMAYIHFTAEGEVTFKS ILFVPTSAPRGLFDEYGSKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVVIRKKLVKTLDMIK KIADDKYNDTFWKEFGPTTKL\ GVIEDHSNRTRLAKLLRIQSSH HPTDITSLDQYVEK\MKEKQDK IYFMAGSS\RKEAESSPFVERLL\ KKGYEVIYLTPEVD\EYCIQALP \EFD\GKRF\QNVVQGKECKFHE S*ENLRK**CKSVEQRISALCLN WMKDKALKDKI*K/ALWVSSA ALTESPVLLLVAQPVRDWSWP TLGE/RSMKAQAYQTGQGHLL QIYYAESERKHFEINPQTPRLIR D\MLRRIKEDEDDKTVLDLA\I VLV*NRQLGSGYLFTQTLKAY GDW/RLERMLRSLNI*PLMPK VEEPR/EEPEETAEDTTEDTE \QDED\EEMDVGTDEKGRTSKG
8351	38719	A	8408	181	462	GMAASDSSKTGFRGKQVVAG AVGDSAKESQGQPPGAPPRRA AGL/WRRHHCSF*AD*TTNAPG GKNPRPGKGAGGEQGTAGDFT CQMPRTQNTL

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8352	38720	A	8409	3	228	STGVVPVSQQNLPLEKASVLFNT GALYTIQIGTRCDRQTQAGLESA IDAFQRAADMSPPLTRRSLGP TRWHQGTPH
8353	38721	A	8410	129	311	RCFQPDCHSTPGTGPRRSGCL LSSAAPW*KPPAAPRTPHSRSH NRGPRRQQHARHQDDP
8354	38722	B	8411	1	789	
8355	38723	A	8412	1	933	TVVLKDFILEHYSEDGYLYEDE IADLMDLRQARRTPSRDEAGVE LLMTYFIQLGFVESRFFPPTQ MGLLFTWYDSLTVGVVPVSQQNL LLEKASVLFNTGALYTIQIGTRC DRQTQAGLESAIDAFQRAA\GP TRGGRASTYEMTPAAS/PEIPGA SLQREE/QWTGA WTHQQIYPQP GTTP*SPPQAQPSRFLFAMDFA ATTSAIGSARPSTNQS*GYFHTG RSWQPVA**ECHILRGNAENVL HDLLSH***RQN**NQENLQEAF LPELGHQQEQTEVSQHLVPPIG RGCTASGQEEAALPFQPSQLRQ FLVL
8356	38724	A	8413	1	389	
8357	38725	A	8414	1	506	
8358	38726	B	8415	125	700	
8359	38727	B	8416	19	338	
8360	38728	A	8417	1	3335	MAALWNTCGAWKNMLIPECH SQLLRVAANPKVREQVRLELSF VNSDLQMLKEELEGLNISVG VY QNTDEDGYLYEDEITDMDLR QACRTPSRDEARVELLMYFIQ LGFVENRLFPPTWQMGLFTW YDSLTVGLVVSQQNLLLEKASVL FNTGVLYTIQIGTRRYRHTQAGL QSAIDAFQRAAGVLNLYLKETFT HNPSYDMIPAMLSVLVKMMLA QTQESVFEKISLPGIWNEFFMLV KVAQEAAKVGEVYQQH
8361	38729	B	8418	1	1689	
8362	38730	A	8419	2	722	CPGGSERGQRQPCGCRSRGRTE PGFSPC*KSA PRPQAVSLKSASP RPSSSS\GPAGISSPGRESRSCGT QNILGPFQLVSG*PL*GR*CQFP AAAEPPAVPL*AEDISA/GPPAV *AP/SGLAHLASG/PGPLPPLGG AGLV*QSI**GGHQGADEGP*G EMDAKEAGPAAQNCDLHVCPG ARGAEGAPGEGCIS*QPHAPDA L*AASELPKDELLRQCSCGG*RC SPAGSAAPRAGSSAVLEPQ

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8363	38731	C	8420	144	439	
8364	38732	B	8421	1	4747	
8365	38733	A	8422	1019	1880	YCCLPRGGNAGCQTRQDPSCRPGPGSQGLSLPPGR\PGAAVECGARSRGWGQQDGPSPGKAQVPAEPAPPQT\PGPPEDPCLGPRNEVPDGG/GARQSHHPGPPRSPGPEGGSPQAAARLVDRVSRPQNQLPNPGP*DQPPRPAIPTATPSGCNGPGFPRAPRRLSSEEEAPSRAGPEEEAPPTYTPRLRRGRPARGPVCR/PPAGPPAV*PEFRRFALPRASVSGFQSS\VAAGGAPDPGPGRLLGYTDAHGDLPLTNTTACTGPWPAGPRHCASGAEA
8366	38734	A	8423	240	763	VLVARRPQRPGHEPAVLQQ/PAGP/PVPRKPNPSPPSRSPAGLRPPGRAGPLTSPRCPLPAFTGHR T/PVGPVRPKAAGPRRRTYQGRGMGPRPRRRPVVPVGGERSHSHPSGPPLRSPGPEWGLTSSSCPARGLEGVSA/TQNQLPNPGP*DQPPRTCHPHGYTQRI/PSGPPLRSPGPEWGLTSSSCPARGLEGVSAPISSRIQGRRTSLPEPAIPTATPNGYIGSGFPAG
8367	38735	A	8424	2	609	PYSISIVSTGPSADSVYTKVRLL EGETLSVQCSYKGYKNRVEGK VWCKIRKKKCEPGFARVWVKG PRYLLQDDAQAKVVNITMVAL KLQDSGRYWCMRNTSGILYPLMGFQLDVSPAPQTERNIPFTHL DNILKSGTVTTGQAPTSGPDAP FTTGVMVFTPLITLPR\IP*PPPD LPPRQATASLLPAPPARDPGGPWGPRQ
8368	38736	A	8425	1	252	

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8369	38737	A	8426	3	1581	ALHCAIRHEDKWPTAVRANGH LLLNSEKMSKSTGNFLTTLQAI DKFSADGMRLALADAGDTVED ANFVEAMADAGIL\RLYTWVE WVKEMVANWDSLRS GPASTFN DRVFASELNAGIIKTDQNYEKM MFKEALKTGFFEFQAAKDKYR ELAVGRDAQ\KLVRFIEVQTLL LAPFCPHLCEAHLGHSWGKPG LQLWNCFPWACGRVPV*WKFL IHSSQYLMEVTHDLRLRLKNY MMPAKGKKTDKQPLQKPSHCT IYV\AKE\YPPWATLPPCLFLT V KHFEGQLTGKTGLDNK\AIASE LGSMPELKKYMKKVMFVAMI KENLEKMGPRI DLQLEFDEKA VLMENIVYLTNSLELEHIEVKF ASEAEDKIREDCCPGKPLNVFRI EPGVSRFLLVN/RPQPI MAHFL NPKLEIRQGD\TVIPIIRRLMKM NRGI*RPFPKVKPGWRI**SHCW GPRRSSCPWEKEYTREDPPFPE ACLFSDVDLMSKKIHLTENGIR VDIGDTINLSGSLNSCTLEIYPG FLGILL
8370	38738	A	8427	1	1052	MIKNIGPQYLTPSFLGEQEGDEE EEGHIVDAEAEEGDADASDAK RKEKQEEVDYEESEEEEREGE ENDDMDQEERNPHRRGARKT QEQDEEVGL/GH*GGPVPSRPP DAAPETHPQPGAPGA\EA VERR VQAVREIHPFIDDYQYD\TEESL\ WGQVTVKLPLMKINFDMSSLV VSLAHGAVIYATKGITRCLLNE TTNNKNEKELVLNTEGINLPEL FKYAEVLDLRRLYSNDIHAIAN TYGIEAALRVIEKEIKDVFAVY GIAVDPRHLSLVADYMC FEGV YKPLNRFGRSNSSPLQQM TFE TSFQFLKQATMLGSHDEL RSPS ACLVVGKVVRGGTGLF\ELKQP
8371	38739	C	8428	154	219	
8372	38740	A	8429	1	1584	
8373	38741	A	8430	200	277	

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8374	38742	A	8431	3	877	LYLKVCYI*KELFEFSNLYKQPS GEEVWERILRV*DNGGRNI\KL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAEI\WIKKW PTVREVEIPDLPLFNVEEGIQKL REIGMG*WISHFRPTHLSWEGP EDIPLTRPSQNIFVRAAPASLKS PVIALLYMSDLMVRTAVTQLQ NLNTMGHIGSQGGRDRVAPLNH QRQSGHGYHNGQQRESGNQNS LTGVELWHWLNHVVSRSSEVD RKPTTFLNLYKQKTSRSNGRK TSLNYKNRESRPLNQFPDLSQF
8375	38743	A	8432	1	282	
8376	38744	A	8433	1	281	SVHTGHHHHYHHRHHHHHHHHQ HQLHQHQHQGGGHHHHHHHHH HHH/HYFQ*ATWEMLLWVGHS HL*RQP*KQHEHRDDVSQAGS VCPCASRGFHIR
8377	38745	A	8434	64	302	
8378	38746	C	8435	133	262	
8379	38747	A	8436	1	1962	MFSIPTGQLRAAASGARRHRGR GSIGGPFHAIQGPVETDTTAQH ETVAPPDLAHPSPASRGPRPY/G RHLALDEPFLHISGALF*DSLAV *EPPE SRLDARPGARNSNSRCPI TA/RPPDTDMGTPSAQGA\SSA\ FAQLPPPHNSTRRAPAGDMPPS MPGATELLACSV\GAG*TSERLG GGFASSLSGSPCSKFGSPASSDA WPRLQPRWPVTFPEAQPLEVPG GTEHGCSPWEPLSNSAAQT\PF PPLHPTAPSCPLGLPGSPPGTSS TGDIYPT*DQSGTSKLYCPLQQ GGAEAAHCV/PA/PEQPETNSKR KGETPTPN/DKEGETPTPNEKKE KHQQQTKRRNTNTRKEGETP TPNEKKEKHQHQTKRRNTNT KRKEGETEPAQGGTNPGRVQQ SPAAL*CFSY*SECQACPSDES AGARFTAGSAPDKGL/PPGPSS WAPSS*HLILATTVHLLVTRPC* PPSCTGPSGHLVVGGRPSAHH HSDLLF*SSAGKPDSWPCWTMS AMGILRPRGRASGAPGSATPFP GEFQEAH\APPVQPSTAQSLPAP CLPLGASGGPRQHPPDV\SRGG DRGLQQSVLSDAAP*PGVRGNP PRGARWGARAAPWAGPSAPHS PCPQP\PGPRDPLVYPSPGTEAQ MSCLTPQFLQILLCDFE

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8380	38748	A	8437	438	699	LLEGKLTNRKDIHTKTPSVCHH HRGPKVDKTTKMGKKQSRKAE NYKNQSASPPPKDRSS\YQQRN KAGHRMTLMS*EKKASENQTS PS
8381	38749	A	8438	1	1334	MDGRLYSVTIQPSSVLNLQLLL SGPKSAVLVVTILMCSETNLSF NEFSSEFKTTSPEKMSIRKPQEK SADGKQFLQNDRKNPKLGNTQ TLLRNDVSGLLSRTKRNI VPPG WYSVYVTNNYVFKKSPKAKK VSESTTKNDPVKNIHIESHNID LNKIAMNSNLQVVVKRLEDTIS IAKKSNNQPLSEGYKASKKLI EIDGKDQHADRNM TLTNRMT CKEQSLSKSVVASGNIINSHCM PTVDLNNKRLENLKKSSILDMG RLISSVENVPAKYEGTESSSVSN YSSPIKLMFLSEVKSSSEGVKYTL TSVGTSHSNVLPSEKPTTHHV TEEKTETNEDISNANSENYHSS HYD TDTFQRELNKF SHAKETA GSSTMFIGDINS DKPQEEP KDNS SSATDPSF/NKKTR*TKKNRSPS CETD*ATNWKT TKA*N*SNKH
8382	38750	A	8439	115	523	QFFSLSQALKLDQAIHISMDAF HSVSELFASQSRRGLDPAMDLL VLSQGHQTNILDIVHIHKEALT KVTENRQHVAEGKTE/SAEADD VRIT/VNRNSFTTSLEIHHFHP1*I RDMKSQM QHFLQQEILFFQKSS RN
8383	38751	A	8440	1	461	
8384	38752	A	8441	3	319	
8385	38753	A	8442	112	480	IFSSLNVAYPWIEKKVDGSKC PIQQQLERKIKNFVLYLK/RLQL TKCEFKN*RLENFIRVNKNEKY VCT/SYHTKLLFN NLH MALILIV FKYQSFFSLHSCNQPHAKVLE PALELQDE DGMVH
8386	38754	A	8443	1	528	

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8387	38755	A	8444	2	811	GIHTRLNSELLKEEESNKRLEAE IE\YQSRLTAAISKHSESVKTER NVKLALAE*TQDVSVQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLALET VHNNLSQTQQQIKEMKEMYEN AEAKENNSTGKWSCVEERICQL QHENPCIEQQLLDDVHQECLPS RKEKFKSEPPAFLSGNQVKSSS CSLQTLFPPDDLILYLENPKDST KKLLELINKFRVTGYKIKLQKS VAFLNDKNEQSKEENQECNPIY
8388	38756	B	8445	1	1581	
8389	38757	A	8446	617	2972	EQNKPYPQLQRKNSKRERSE KKQPQVKEGNNTNKSEKIQLSE NICDSTSSAAAGRLTQQRKIGK TYPQQFPKKLKEEHDRCTLKQE NEEKTNVNMLYKKNREELERK EKQYKKEVEAKQLEPTLQSLE MKSKTARNTPNRDFHNHEEMK GLMDENCILKADIAILRQEICTM KNDNLEKENKYLKDIKIVKETN AALEKYIKLNEEMITETAFRYQ QELNDLKAENTRLNAELLKEK ESKKRLEADIESYQSRLAAAISK HSESVKTERNLKLALERTRDVS VQVEMSSAISKVKAENEFLTEQ LSETQIKFNTLKD KFRKTRDSL RKKSLALETVQNDLTQTQQQT QEMKEMYQNAEAKVNNSTGK WNCVEERICHL\QRENPWLVQQ \LDDVHQKEDHKEK*LISQRGF IESGKKDLVLEESKKLTNECD HLKESLFQYEREKTEGVPKKEN EELRKL FELISSLKYNVNRIRKK NDELEEEATGYKKLLEMTINM LNVFGNEDFDCHGDLKTDQLK MDILIKKLKQFDDLTAKEAL SSKCVNLAKDNQVLQQEFLSM KKVQQQCEKLEEDKKMLKEEI LNLKTHMENNRRVELSKLQEYK LELDEKAMQAVEKLEEIHLQEQ AQYEKQLEQ/FKQGYNTASLNK KELTLKDVECKFYKMKTAYEE VTTELEEYKEAFAAALKANSS

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8390	38758	A	8447	1	2794	AVYLSRGCVCVCIRCISSLLKEPH EEGVMCSFRSVATQKNDIRPDF QLGKMDSKIKELEPQLTILYQN PKTLKFQGKKS VKFALSPSMAL RK*PFKMFSI*SIFIALQFLHGY KPILFEPNQTWPGHVAVWQDT CSIVAI/SANITQKVHPVI/W/SSIP PYGVALSSLTGTAAFP LCTQL GV*IPLDCAQATFISHDKMVISL KGYLFLSSCLGNSLLKYTEKL QEPPASAICEAADKEEPSQKK RVDT/S
8391	38759	A	8448	184	427	WAIQIRHVVDQEWQIADPC NM**VENAETLPPGPFLNISLES SARRRATSRDDNRRFRPHRSRR SRRSRSDNALHLASE
8392	38760	A	8449	1	903	MAQKFMAPNRARTLRDICTDR EAYPVQESMGSGTRGQRKEDM GGAALSTGEGGARDVKAPLPE ATLCSQMGPTRPSGLCDLAG STLAGRWMHQSFDFDGGMEAS KLPGQEGVRIQPMSETRRRRAT SRDDNRRFRPHRSRRSRSD FSLHLASEREAISRLKDRPPLRA REDYDQFMRQRSFQESMGHGS RRDLYGQCPRTVSDLALQNAF GDRWGPYFAEYDWCSTCSSSS ESDNEG YFLGEPQPAPRLRYV TSD\DCCTNTAPTASPNLPH*VA EDSCTAGKDQRAKTCIISLY
8393	38761	B	8450	1	322	

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8394	38762	A	8451	1	2460	MEEKSKRRGVLWSLLILALKFG DEPPLGSPNSCKYKLTTLKELG WREVFSSLQFCLCTSVASQMLS QYFEYTQPHPGDICHPETCALQ KVFLTSSGQSSSTSSSSQQFVLQ INAIQTILEKTPTTHISTPTPTLA NPTAVGLEEDREQDVGTSRG GAWDTRIKRELEKMSEKCGGQ INGGDIAVFASRAGHGVCWHPP CFVCTVCNELLVDLIYFYQDGK IYCGRHHAECKLPRCAACDEIIF ADECTEAEGRHWMMKHFFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGKPRDAIMS SLHSWHLRKGVRRRRRRKEDK SPEVLP*KS\SSGTLSH*R*RPH* SLFLGSRVSL\PSGECRGP GPPYS HSLRLYSQQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDQGHW HATETCFCAHCKKSLGRPFL PKQGQIFCSRACSAGEDPNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDP LSLQMDMLSLSSQT PSLNRDPIWRSREEPYHYGNKM EQNQTQSPLQLLSQCNI RTSYSP GGQGAGAQPEMWGKHFSNPK RSSSLAMTGHAGSFIKECREDY YPGRLRSQESYSDMSSQS FSET
8395	38763	A	8452	2	942	NKNPKNHYPESYVSLKNDFTK LTSRRHRGVEQALVQLCHVFV CEHGHVIVTLSSGFIVYRTRAN YSSSAQGVGIAAAALDAVLIRA HQRTQGCHHEL SALLAFEKGSE KKEEEE GQVSRSSSLKVQAQE LSATEDKGHISPFWEAVYHYA SGECRGP GPPYSHSLRLYSQQA LPTGRGPSSSQFPFCQFYCCYK KSLLCDCLSKSPA LEKAMRGID QGQMTYDQGHW HATETCFCC AHCKKSLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP\ C*TSTASCK

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8396	38764	A	8453	1	937	VHQYYSCLPPEKVPYVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENLG RGNVRPFPVTMTGAICEQC QINGGDIAVFASRAGHGVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHAECKLPRCAACD EIIFADECTEAEGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDGGQHWATETCFCC AHCKKSLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP\
8397	38765	B	8454	214	551	
8398	38766	A	8455	1	1140	
8399	38767	A	8456	1	2525	MLNIQSVPGIGQGHSRYLHSN PMHSGDFISNIHMRKPKFREIIF ADECTEAEGRHWHMKHFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGPRDAIMS SLHSWHLRKGVRRRRRKKEDK SPEVLP*KS\SSGTLSH*R*RPH* SLFLGSRVSLAPSGECRGP HSLRLYSQQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDGGQHW HATETCFCCAHCCKSLLGRPFL PKQGQIFCSRACSAGEDPNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDP PSLNRDPIWRSREEPYHYGNKM EQNQTSPLQLLSQCNIRTSYSP GGQGAGAPPEMWGKHFSNP RSSSLAMTGHAGSFIKECREDY YPGRLRSQESYSDMSSQSFSET RGSIQVPKYEEEEEEGGLSTQ QCRTRHPISSLKYTEDMTPTTEQ TPRGSMESLALSNTENQDDCS FVNRLKGSNNRPGRRQELMVT WNFIQERNNGSGMDQCDDGGG KILDPVYILTVELTGFAKGWKM FSVKDQSVNVLGFAGCLSADG GAKRQEHLRFSPDLKDSG MNVSEKLSNMGTLNSSMQFRS

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8400	38768	A	8457	7	302	PLPSSPEQPAGRKGT\GLPCALT EIYFRVT\IYFYVEIEK\LLIIVAK QEGLSGN\HKP\VERKYMTYLS AQD\HELIQVVQNGHLQMCGK SETGNEASPV
8401	38769	A	8458	1	241	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASP/G*GRGVNP WP/RHARSRMRALTRSSASCCR CSGASSICTGTSLSSTGG
8402	38770	A	8459	31	454	QRSAWRSQIWSASRSV*SVFVR RASSRCLRNTGSGPGHPDR*DC RT/ARRCGWTRRRMASPSAAC GRSRCCSACVI/LNIVELKEVVV GNHLESIFLVMGYCEQDLASLL ENMPTPFSEAQVKCIVLQVLRG LQYLHRNFIIHR
8403	38771	A	8460	1	914	SYHHLRHHHHHLPHHCF/HHN NHYHHYHHYYHHHHHCHHYH YHHLHHHHHHHHHDHCYYH NNNNNCHHHHHHHHHHH*Y HHYHPHHHHHHHHHHHHYHH HHHHHHHRHHYYHHHHHQHH HYHHLHHHHYHHYYHNNYHR HHRYSNNHHYHHHHPHHY HHHC*HHHYLYHHHHHHNH HHHYHHHHHHYYHYHYH/HHH HH\HHHHYHHYCHDHNYHYH HHHHYH/AHFHHHHYHHYHYH HHHHRHHHLHHHYCHRP HHYHLSCCETSHTLFPQNAISSFD CKYLDGQDDEDFVVYKLCTLY
8404	38772	A	8461	102	420	DTGPGEGAAGCGG/GVGEV AAPAAPGHS*VG/GNQPYLSPV CSRGSPGTGRAAARGLSGCWP WWSRSGSAPSQCSSASWSAW SAGAPRFAPSAPGHPEGRRCPA
8405	38773	B	8462	121	215	

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8406	38774	A	8463	44	1584	AVLDRGPRVGSSSPSPGGMSTC LSSPLFATAAELGG\GLCSAGRD GPRRKVYLSVDEKKLRCCQPKS GRSVAERAAGH\SAEGWRPVH VGPGLLGLAL*GP*AWGFQGR KGGI*KGAYTAKCMMGSDKAQ ASGIATGGGHSGAEAVG/PQQ/ QGTVLSFEGGGGLSFRRMPGSL \GPSVPCKCGHPGPRCPPHHAV E\GTDTVATVAAT/GPPLAPSHG TSWQSGSLQ*DTGPGEGAA\AA AVVGVGEGAELPAAPGHS*VG VISHICHPPFVAGGSPGTGRAAA RGLSGCWPPWSPRSGSAPSQC SSASWSAWSAGAPRSAPSAPGH PEGRRCPA*GWN PQSKSSLKS SELWTPIPYVPYA VP*HTCGYA AGPAPVQTPCRGGWNGAQVGL DP\GGHGDGTPHGS/APRLPGRV GGAP*AAVAAISTDPPATASLG PAPGGPACCPSL*AACPASSASP APARSSWPPAPASCGSAAPWW HQTGHGSLWWPEHSCRLSHRS PSPGAPCWPFPRASPDRTA
8407	38775	A	8464	1	541	MKSLEEKIGCLLKFLGLDDQT CKEDLHILFSNHGEIKWIDFIRG AKEGIILFKEKAKETLGKAKDA NNGNLQLRSKEVTWEVLEGE EKEALKKITEDQQESLNK WKS KGC RFKGRKGSKAAQPGSGK GKVQFQDKKTKFASDDAHDEN GSTGPIKRGRETDKE*PASKQ PKTENA

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8408	38776	A	8465	1	1326	PAALGGGVVAVAVCEPVARLL WAGTLKIAVMAENGDNKMA ALEAKICHQIEYYFGDFNLPRD KFLKEQIKLDEGWVPLEIMIKF NRLNRLTTDFNVIVEALSKSKA ELMEISEDKTKIRSPSKPLPEV TDEYKNDVKNRSVYIKGFPTD ATLDDIKEWLEDKGQVLNIQM RRTLHKAFKGSIFVVFDSIESAK KFVETPGQKYKETDLLILFKDD YFAKKNEERKQNKVEAKLRK QEQAQKQKLEEDAEMKSLEEKI GCLLKFSGDLDDQTCREDLHIL FSNHGEIKW\DFVRGAKEGIILF KEKAKEALGKAKDANNGNLQ LARNKEV\TW\EVLEGEVEKEAL KKIIEDQQES\LNKWKSGRRF KGKKGKGNKSCSPSGKGKGVQ FQGKKTKFASDDEHDEHDENG ATGPVKRAREETDKEEPASKQ QKTENGAGDQ
8409	38777	A	8466	2	331	CSTSLMIREMQVKTTMRYHLTP ARMAIHKSRPGVCGPQFTASY CSSWNRGLSRAMAQSLTPRPLS TLQ/PLLA VDRGS/PVLGASHRL PAQC/CMTDSSSSTLGSAAGSW QQ
8410	38778	A	8467	1	209	MNSHFLKEDIQMANKHMEKCS \PLLMIREMQIKPTVRYHLTSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
8411	38779	A	8468	2	370	CSTSLIIREMQIETTMRYHLIPA RMAIHK\SRCWQCGEQETLL HSWKPPQ/LWRSSGTARERQF LHPLLLKARIEITPPESLAVLKIP MEGTWMELEAVILSKLTQKQK TKH*MLSLTSGS
8412	38780	A	8469	2	194	CSTSLMIREMQIKTTVRYRLTS ARMAIHKSK\NSRCWHGCGEH RTLLHCCNLWKERNVSYVSA
8413	38781	A	8470	341	496	

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8414	38782	A	8471	46	711	SLIHLELIFCIGLDVRLGKDFMT NNLKGNAIKTKINFWDLIKLN FCKAKRNSQRANR*QTEWEKT FIICTSDKGLTSRIYNKLLKQISKK KTNNPIIKWAKDMNRQFSKEDI QMANKHMKKCSTSLMIREMQI KTTVRYHLTSARMAIIKKSK\NS RCWHGCGEHGTLLHCWK/SKS LYEKDTCTRMFIAAQLAIAKTW NQPKGPSINAWIKDWCQSKTN HNK
8415	38783	B	8472	36	1199	
8416	38784	A	8473	3	184	FFFFFLRRSL/DSVAQAGVQWR DLSSLQAPPPGFTPFSCSLSS WDYRRLPPRPANFLYF**RRGF TMLARMVSIS*PRDPLASASQS AGIQKNSFFFLETRVSAFVAQA GVQWCDLGSPQPPPGFK*FSC LSLLSSWDYRRLPPRPANFLYF
8417	38785	A	8474	3	295	AAAFFVFFETEFRSVAQAGVQ WRDLDSLQAPPPGFTPFSCSLP CSWDYRRVPPCPANFCIFSRDG VSPC*PGWSRSPDLVIHPSRPPK VLGLQAMS
8418	38786	A	8475	1501	1879	IRNTHAKIIELCLLPLFTTEL*CNF FFFFLRRSL/DSVAQAGVQWRY LGSQAPPPGFTPFSCSLSSW GYRRLPPCPA/NFFVFLVERGFT VLARMVLMS*PRDPPASASQSA GITGVSHHARPTLK
8419	38787	A	8476	1550	2469	FFPFFFFLRRSSPLPPRLQCSGMI LAYCNLRLGSSNSVASASGVA GITGTCHHTQ*IFVFLVETGFHH VGQAGLEFLTSGDLPTSASQSA/ RDYRRDDHTRPEKCF/C*KTHIL WHSPSWSS/EERGSQFFSQDS*K SSRYPKKLLGMWVIAINIYGTR T*K*EKFKTREYIGTHSIHRGNH GVNTYHVASEKLH/*YTYRMK KAKNFFFFLRRRELASIVAQAG VQWRDLG\SLQSPPPGFTPFSC\P ASLRSDYR/RVLPCLANFFL YFFS/MRRGFTVFSR\MVSIS*PR DQ\PASASQ\SAGITGVSHRARL KIIIFLFFFSETESRSVAQAGVQ WHDLGSRHRPPPGFTPFSCLSFP SSWDYRGPPRPANF\CVFSRD GVSPC*PGWSRSPDLVIRPASAS QKCWDYRREPPRPA
8420	38788	A	8477	1	2268	

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8421	38789	A	8478	1	2312	MAGPPSGPGRPEVCGAGRTRV AKARFRRRAAFASLGWSSGRE VVTFGDVAVHFSREEWQCLDP GQRALYREVMLENHSSVAGIG EDAPWGPFPCCIISQHPPSQASIR GPCVYTVADVPTGIAVIPPA VCFSRLKDCDTRTEDKEFLHKE DIHEDLESQAEISENYAGDVSQ VPELGDLCDVSDWGWVPEG RRLPQSLSQEGDFTPAAMGLLR GPLGEKDLDCNGFDSRFSLS LMACQEIPTEERPHYPDMGGQS FQHSVDLTGHEGVPTAESPLIC NECGKTFQGNP\TLFSVKQSHT GEA\SFMCDDCGKTFQSNSVLK NRHRSHMSEKAYQCSECGKAF RGHSDFSRHHSSSERPYMCN ECGKAFSQNSLKKHQK\HMS EKPYECECGKAFA\SSNLIQH QRIHSGEK\PYVCSECGKAFRRS SNLIKHHRHTHTGEKPFECG*CG KAFSQSAHLRKHQRVHTGEKP YECNDCGKPFVSRLIKHHRV HTGEKP*KSSACGKAFSQSSSLI QHRRHTG\EKPHVCNVCCKAF SY*LQCSESTRFIHTGRGRPYRC SVCCKAFSHSSALIQHQGVHTG DKPYACHECGKTFGRSSNLILH QRVHTGEKPYECTECGKTFQS STLIQHQRHNGAEAP/YKCNQC GKAFA\QSSKFSIHPQKVHIGEK PSPCVCCKGFSQSSHFFQHRY
8422	38790	C	8479	194	458	
8423	38791	C	8480	214	378	
8424	38792	A	8481	107	345	GPLTCRYWEIHSQEPGPPRSLE MVLFPSPQN*SPVWSKEKNL*P *RDMR*/YAKPPGRCK*K*IQ MTQMRGRNIQEKASP

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8425	38793	A	8482	1	1454	MHEEEGESGDSRVYMSTQCTH VTLNKFLGFIVSESVSGLNIQES MKEVLRGQSLKHNPIREAGLET LQSGRQLERRGRLSGMARPLSL AAAGAPDLLFTALCSLLIEAQP LRPFDLQTTLTAAECHYTGKKF SLNEGKPVLRKNSQTNTWEPG TIITWGRGYACVSPGDQSPVWV PTERLKL RVNSDKESHREKTSK SETAFIPAQDLAYNRFYLIILLT LSVSPVSPQTDLPAT*NYSYWA YVPFPPLIRPLTWMDAPAEIYT NDSVYMPGATDDHCPTRPREE GTAFNVTMGYKYPPLCLGHAH VDGCIHLQAQIWAA YLPERLAT REQGHLISSLSPLRQMKGGVI GDTPNFQYKPVGKPCPKNFEGP SKILIWEDCVNSHV VVLKND YGLVIGWAPKGYFK\NNCSSGG RECLEATYFISHWEDKDHHPTL HRRVSSFFPL*WEDKGITPPRPH MIFPILSLEHSELWKLAIAMSGL
8426	38794	A	8483	49	1393	AEPAPTHLPPPSTAPQPERNSC CISQQSFSVP*S/SPDSDRPRGRH /SPPPP/SPCPPPPCLPPPKSTTAM PTRCQCPPPIPTVA AFPLPPSHF LRTLPA PRPPTQPPPLSH/TTHPP EQRTLGP KFRLFSTPSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACL PQCRDKELLITK RK YRKKKDFAAGLEDVTEFQG REENPRHTFIYSLPLGLQKHQV LTVDIGFGGTAIMTGIARVPLA GAAGGPGVGRAAGRGVPAGVP IPQAPAGLAGPVRGVGGPSQQV MTPQGRGTVA AAAVAATASIM APPPGMRPPMGPIGLPPARGTP IGMPPPGMRPPPPGIRDCGGS LT PLGDVCLKGSLARVLCRAIVQI YSICVLLTTSEQQLSIRIHPQNA V

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8427	38795	A	8484	49	752	AEPAPTHLPPPPSTAPQPERNSC CISQQSFSVP*S/SPDSDRPRGRH /SPPPP/SPCPPPPCLPPPKSTTAM PTRCQCPPPIPTVA AFPLPPSHF LRTLPA PRPPTQPPPLSH/TTHPP EQRTLGP KFRLFSTPSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACL PQCRDKELLITK RKYRKKKD
8428	38796	B	8485	511	1349	
8429	38797	A	8486	3	431	ADAVGGPGGPGMAGCDGLPG GFGSDIRPRLWLWLGPR LWSS* RG T\NIILASVPKLLLM/DCYA LARDRTATLG\TFDAISK TASN WIPDLWKETVFTKFPYQEFTDH L/VKTHTRVSKQKTQVPAVATT AARQTM EGQAPVEYI
8430	38798	A	8487	1	470	
8431	38799	A	8488	3	314	
8432	38800	A	8489	1	458	
8433	38801	A	8490	1	855	PTRPLVLRVGATARALPRPSRS CPSAVVPSAPSSCPPQPR\RTPK PEPEPEQVIKNYTEELKVPPDED CIISMEKLSTASGYSDVTDSKAI GSLAVGHLTKCSHAFHLLCCLA MYCNGNKDGS LQCPCKTIYG EKTGTQPQ GKMEVLR FQMSLP GHEDCGTILIVYSIPPAGIQGP\EH PNPGKAVSLPEGFPAQCYLPEQ RPGPAKSLRAP*R WAWK\RLI FTVGHVPAPTGETDTVVWNE\H HKTEM DRNITGHGYDPDNYL QNVLAELAAQGVTEDCLEQQ
8434	38802	A	8491	1	3797	MEYYAAIENDEFMSFVGTWMK LEIILSKLSQE QKTKHRMFSLID FGFSNLFTPGQLLKTWCGSPPY AAPELFEGKEYDGP KVDIWSLG VVLYVLVCGALPFDGSTLQNL RARVLSGKFRIPFFMSTGLVPEL DKRLKAGCLSIAECEHLIRHML VLDPNKRLSMEQICKHKWMKL GDADPNFDRLIAECQQLKEERQ VDPLNEDVLLAMEDMGLDKEQ TLQSLRSDAYDHYSIYSLLCD RHKRHKTLRLGALP

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8435	38803	A	8492	1	2563	MGDFNTPLSTVDRSMRQKV DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDNIIG SKALLSKCKGTEIITNSLSDHSA IKLELRIKKLTQNHSTTEKLN LLNDYWVHNEMKAEIKMFSET NENKDTTYQNLWDTFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKLNQEEVESLNR PITGAEIVAIINSLPTKKSPGPDGFTA KFYWRYKEELVPFLLKLFQSIE KEGILPNSCYEASIIIPKGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNICKSINVIQHINRTKD KNHMIISIDA EKA FDKIQPPFML KTLNKL A QNLLKLISN/SQQSLR IQNQCTKITSILIHQ*QTNREPNH E*TPIHNCFKENKIPRNPTYKGC EGPLQGELQTTA QGNKRGYKQ MEEHSMLMGRKNQYLENGHT AQGNL*/I/QMPSPSSY**LSSQN WKKLL*SSYGTKK\GPHSQVNP KPKEQSWRHHTT*LQTILQGYS NQNSMVLAPKQR*RPMEQNRA LRNNAAYLQLSDL*QT*QKQA MGNGFPI**MVLGKLASHMEK AETGSLPYTLYKN*FKMD*RLT H*S*NHKNP RRKPRQYHSVHRH GQGLHV*NTKSNGNKSQN*RM GSN*TKELLHSERNYHQSEQAT HKMGENFRNLLI*QRANIQNLO

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8436	38804	A	8493	1	1839	MPRALAFQAPVNIQAEQAGTA MNISVPQVQLINPENQIVEASSN LWELSAETTTFFAISLLPFLISNS MPDGTLNLDSDGEDEEPSPEALV RYLSMRRHTVGVADPRTEVME DLQKLLPGFPGVNPQAPFLQVA PNVNFMHNLLPMQNLQPTGQL EYKMSGPLPLSPRLPLISWSVLPT LFLA\EQSLLQPPTLQLLNGMGP LGRRASDGGANIQLHAQQLK/ RPRGPSPLVTMTPAVPAVTPVD EESDGEPDQEA VQRYLANRSK RHTLAMTNPTAEIPDLQRQLG QQPFRSRVWPPHLVPDQHRSTY KDSNTLHLPTEFSPVRRFSDG AASIQAFKAHLEKMGNNSSIKQ LQQECEQLQKMYGGQIDERTL EKTQQQHMLYQQEQHHQILQQ QIQQPAQSQQVTIQVQEPVDML SNMPGTAAGSSGRGISISPSAGQ MQMQHRTNLMATLSYGHRPLS KQLSADSAEAHRLKWETREKG LEDDSSVSSNTGGDVTNEGKST ESADFGFSNLFTPGQLLKTWCG SPPYAAPELFEGKEYDGPKVDI WSLGVVLYVLVCGALPFDGST LQNLRARVLSGKFRIPFFMSTG YFHLLGSHCNVVLNAKDKVGF
8437	38805	B	8494	1	3879	
8438	38806	A	8495	1	4065	MGKKQSRKTGNSKKQSASPPP KKRSSSPATEQSWTENDFDEL EEGFRRSNYSELREEIQTGKE VENYEKSLEECITRITNTENCLK ELMEPKTKARELRKECRSLRSR CYQLVERVSAMEDEVNEMKDT HRLKVKGWRKIYQGNGKQKK AGVAILVSDKTDFKPTKIKRDK EGHYMMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDL SHTLIMGDFNTPLSTLDRSTRQ KVNNTQELNSALHQA
8439	38807	A	8496	1490	1813	TGNLQNGRKFLQPTHLTGK*YP ESMMNSNKFTRKKQTTPSKSG RRT*TDTSQKKTFMQPKNT*KN AHHHWPSEKCKSKPL*DTISHQ LEWQSLKSQETTGADEDVDK

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8440	38808	A	8497	1614	3085	AGE G N K A D K Q L Q Q S L R I Q N Q C T K I T S I L I H Q Q Q T N R E P N H E S T P I H N C F K E N K I P R N P T Y K G C E G P L Q G E L Q T T A Q G N K R G Y K Q M E E H S M L M G R K N Q Y H E N G H T A Q G N L Q I / Q M P S P S S Y Q * L S S Q N W K K L L S S S Y G T K K \ G L H H Q V N P K P K E Q S W R H H A T * L Q T I L Q G Y S N Q N S M V L V P K Q R Y R S M E Q N R A L R N N A A Y L Q L S D L * Q T * E K Q A M G K G F P I * * M V L G K L A S H M * K A E T G S L P Y T L Y K N Q F K M D * R F K R * T * N H K N P R R K P R H Y H S G H R H G Q G L / L C P K H Q K Q W / H T K A K I D K W D L I K L / I E L L H S K R N Y H Q S E Q A T Y K M G E N F R N L L I * Q R A N I Q N L Q * T Q T N L Q E K N K Q P H Q K V G E G H E Q T L L K R R H L C S Q E T H E K M L I I T G H Q R N A N Q N H N E I P S H T S * N G N / Q L K S Q E T T G A G E D V E K * E H F Y T V G G T V N * F N H C G S Q C G D S S G I * N * K Y H L T Q P S H Y W V Y T Q R T I N H A A I K T H A H V C L L R H Y S Q

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8441	38809	A	8498	2	2013	LNQEEVESLNRPTGAEIVAIINS LPTKKSPGPDGFTAKFYWRYK EELVPFLLKLFQSIEKEGILPNSC YEASIIIPKPGRDTTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIIISIDAE KAFDKIQQPFMLKTLNKLQN LLKLISN/SQQSLRIQNQCTKITS ILIHQ*QTNREPNE*TIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQGNKRGYKQMEEHSMMLM GRKNQYLENGHTAQGNL*/I/QM PSPSSY**LSSQNWKLL*SSYG TKK\GPHSQVNPKEQSWRHH TT*LQTLQGYSNQNSMVLAPK QR*RPMEQNRALRNNAAYLQL SDL*QT*QKQAMGNQFPI**MV LGKLASHMEKAETGSLPYTLY KN*FKMD*RLTH*S*NHKNPRR KPRQYHSVHRHGQGLHV*NTK SNGNKSQN*RMGSN*TKELLHS ERNYHQSEQATHKMGENFRNL LI*QRANIQNQLQ*TQTNLQEK KQPHQKMKGHEQTLLKRRHL CSQKTHEKMLITGHQRNANQN HNEIPSHTSQNGD/QLKSQETT AGEDVEK*EHFYTVGGTVN*FN HCGSQCGDSSGI*N*KYHLTQP SHYWVYTQRTINHAATKTHAH VCLLRHYSQ
8442	38810	B	8499	1	2860	

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8443	38811	A	8500	3	2202	EGRNKDVI*NQREQRHNIPESL GHIQSSV*REI*NTKCPQEKAGK IQN*HPNITIKRTRKARANTFKS *QKARNN*NQSRIEGRDRTKNP SKN**IQTIREYYKHLHANNLE NLEEMDKFLDTYTLPRLNQEEV ESLNRPTGSEIVAIINSLPTKKS PGPDGFTAKFYQRYKEELRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNIPCSWVGRINI VKMAILPKVIYRFNGIPIKLPTF FTELEKTTLKFIWNQKRARVAK SILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEIMPHIYNYLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRCLKMDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI GMGKDFMSKTPKAMATKAKID KWDLIKLSFCTAKETTIGVNR QPTKWEKIFATYSSDKGLIFRIY NELKQIYKKKTNNPIKKWAKD MNRQFSKEDIYAAKRHMKKCS TSLAIREMQIKTTMRYHLTPVR TAIHKSGNNRCWRGCGEIGTL LHCCWDCKLVQPLWKS V WRF LRDLELEIPFDPAIPLLGIYPKDY KSCCYKDTCTRMFTAALLTIK TWNQPKCPTMIDWIKKMWHIY TMESYAAIKNDEFMSFVGTWM KLEIILSKLSQGQKTKQRIFSLI DGN

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8444	38812	A	8501	437	2163	KQKCNISHLWNAVVERIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNI PCSWVEESIP*K WPYCP R*FTDSMPSPSSYQ*LSS QNWKLL*SSYGTKKEPASPSQ S*AKRTKLEASHYLTSNYSTRL Q*PPGKRGPPEVQGHNADENN HTEDRQGNRRHEHSIDQLAVT DVHSTTA EY TFLSTRGGFSKID HMLGCKTNLNKYKEIIQSIFS NHNEIKQEINSRRKTRKSTNLW ELSSALLMNGSEKKTQVNL DNI WKLMAKAKMHITLMECSERK NKIPRNPTYKGREGPLQGE LQT TAQGNKRGYKQMEHPMLMG GRINTVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RARIASILSQKNKAGGLTLPD FKLFYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNYVIF DKPEKNKQWGKDSL FNKWCW ENWLAICRKLKLD PFLTPYTKI NSRWIKDLTVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDK WDLIKLSFCTGKET TIRVNRQPTKWKKIFATYSSDK GLISRIYNELKQIYKKKTNNPIK KWVKDMNRHFSKEDIYAAKK HMKKCSPLAVREM QIKTTMR YHLTPVRMAIIKSGNNRCWR GCGEIGTLLHCWWDC KLVQPL WKS VWQFLRDLELEIPFDPAIPL
8445	38813	A	8502	1	2001	MPHIQVMLMQEMDSHSLGKLC PYGFAEYSPTSSCFHGFVLSVC GSSRDKATQRVDALVRQVIVN GGIVLDQFAVHDRVALADLIDL LVDLSAMMLCGVPTTGDPFVA FALGHPDDFDHLILPKHLVD RY LLEPLLGPVQLLSHSASVHLD LHQFCSDFSYGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNI P CSWVGRINIMKMAMRPR*FID SMPSPSSYQ*LSSQNWKLL*SS YGTKKEPVSPSQALA
8446	38814	B	8503	152	3166	

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8447	38815	A	8504	15	2745	HPTVNIRQINETESQQGYPGIEL SSAPSGPNRHLQNSP/PPNQQNI HFFQHHTTPIPKLTT*LSTLDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRIKNLTQSH STTWKLNNLLLNDYWVHNEM KSEIKMFFETNENKDDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITK
8448	38816	A	8505	2853	3925	AVGPSVRTPRPYLCVRKDVHD VVPILRPSATSLFMPRAAGQGG QKAGGTEKSSGP*KDDV*RLQP PNGFRIIH*VQ*TCRKGCPLSK RNTFQFQN*R*NLLYPALPNIPH SSVEEGVGS!*ARSEDLEGAQLP *LLARLFTCRSNTYRGLKFTEA* GGE*QSICYSTRRANYPKY/HM HPIQEDPDS*SKS*VTYKET*TP TQ**WETLT/PPLSTLDRSTRQK VNKDTQELNSALHQADLID\TT ELSTPNQKNLHFFQHHTTPIPKL TTYLEVKL\PQQM*KNRNYNKL SLRPQCNQTRTQD*ETHSKLLN YMETEQPAPE*LLGT*RNESRN KDVL*NQREQRHNIPELGHIS SV
8449	38817	A	8506	2	376	IPYLP*STYMETGMIYVVQGIY GYHHYMQDRIDDNGWGCAYR SLQTICSWFKHQGYTERSIPTHR EIQQALVDAGDKPATFVGSRQ WIGSIEVQLVLNQLIGITSKILFV SNTRKNKKVGNIVS
8450	38818	A	8507	1	1008	
8451	38819	A	8508	218	343	
8452	38820	B	8509	306	1434	
8453	38821	A	8510	3	659	

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8454	38822	A	8511	3	1990	EPHRIASPRFRQAFDSDGTDRTL *FLSDIEEEELTRGDPEQRHVPL RRKSEWKWAADRAAIDSRWN WLQAHVSDLEYRIRQQTDIYK QIRANKGLIGLGEVPPP\EH TTD LFLPLSSEVKTDHGTDKLIESVS QPLENHGAPIIG\HISESLSTKSC GALRPVNGVINTLQPV LADHIP\ GDCSDAEEQLHKKQRLNLVSSS SDGTCVAARTRPVL SCKKRRLV RPNSIVPLSKKVHRNSTIRPGCD VNPSICALCGSGSINTMPPEIHYE APLLERLSQLDSCVHPVLA FPD DVPTSLHFQSM LKSQWQNKPF DKIKPPKKLSLKH RAPMPGSLP DSARKDRHKL VSSFLT TAKLSH HQTRPDRT HRQH LDDVGAVPM VERVTAPKAERLLNPPPPVHDP NHSKMRLRDHSSERSEVLKHH TDMSSSSYLAATHHPPHSPLVR QLSTSSDSPAPASSSSQVTASTS QQPVRRRRGESSFDINNIVIPMS VAATTRVEKLQYKEILTPSWRE VDLQSLKGSPDEENE EPASPDV SSSHSLSEYSHGQSPRSPISPELH SAPLTPVARDTPRHLASEDTRC STPELGLDEQSVQPWERRTFPL AHSPAECEDQLDAQERAARC TRRTSGSKTGRETEAAPTSPPIV PLKSRHLVAAATAQRPTH R
8455	38823	A	8512	119	739	ADDRDHLHIQTWCAKAPVFLQ PGSSWLSTKGKKM/PETPASDE PPLRQPAVRFEFLQHAPPSLQP LGSPGHS*GPSSDTGQPAAGR W PRRQP*AAVQDLGPQTRGSASP ESQTVLPAAPSAPGSARPHGSM SASAPSPTASPQMSKPPCAAAC LRGSGAGGGTVGPCLEPGGSAP PRARLPRCAAGSARPGAAAGPP PGAGTTRAVP
8456	38824	A	8513	1	343	MRMCLRLPTLMTKCTNWHVT GHLCRPT/MREPTPEP/WTGDTT TA*METRWPAEQPALAERRLFR AAPRGAFAGIAAPSPAAPPQPG SLGILPEPTPAQAWAARNQLRG RIKERGS

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8457	38825	A	8514	3	405	KKFNPAGERVCTILVDPSIPSTAYPSYGVPHS*GPSLSLPHL/SSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS/SSNCIPPAWEGETPSKKNKINGNPWSKIRDKTSGGEVEVWGLVAVAPVM
8458	38826	A	8515	100	1397	PPASTYLMLERLKPWSAALQRKYFDLGIWTAPISPMALTMLNGLLIKDSSPPMLLHQVNKTAQLDTFNYQSCFMQSVFDHFPEILFIHRTYNPRGKV/CIYLPGGWTSGAAGGSSCPSSLLCHPC/ARRDT/CRPVPDVPSIQEV*SSMGESLYHPGGSSFPSTAYPS/SWSSPQLRSFSQPSTFVSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS*ATASLQPCPSFTHTGCS TTASGWLTAGEAELRAATTSRASRSPPTSSASSLVPPHLRNKVWLLCSVTCRSLQTRQTSTRACVPRTIMLPQTPSPKAPNWSSW*NPTSSTPSMPSAQGGQPNCASWASLLWSRNPHTSLALAQR*TYRSWKIPIRCSPSPLPAAAAATLTRPSTCPAATS*PCSVPAARCSPTCCRLSGRQAVLPV
8459	38827	A	8516	1	326	CLTQMYFLIS/FANVDTFLLAIMALD/RLLAICSALRYCSIITPGYSHFYCDAYLLMKIACSIHVNQHVFLGAVVLFL/APCALILVSYIRIAAA/ILRIPSPTRRRKACSIC
8460	38828	A	8517	2	669	TISYPQCLTQMYFLISFANVDTFLLPIMALDHYVAICSALQ*CSIITP/ELCQGLPVLA*AGSSLISPVHTVIMSRlafCSSAQISHFYRDAYLLMKIACSH*\NQHVFLGAVVLFLAPCALILVSYIRIAAAILRIPSPTRRRKACSICSSHLSLVTLFYGTVLGICI*PPDSFSAQDAIATIMYTVVTSM LNPFIIYSLMNKEVQEA VRRLFSRGSHSSWCW

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8461	38829	A	8518	1	3594	MVAAAAATEARLRRRTAATAA LAGRSGGPHCVNGGRCNPGTG QCVCAPAGWVGEQCQHCGRFR LTGSSGFVTDGPGNYKYKTKC TWLIEGQPNRIMRLRFNHFATE CSWDHLYVYDGDSDIYAPLVAA FSGLIVPERDGNETVPEVVATS GYALLHFFSDAAYNLTGFNITY SFD MCPNNCSGRGECKISNSSD TVECESENWKGEACDIPHCTD NCGFPHRGICNSSDVRGCSCFS DWQGP GCSVPVPANQSF
8462	38830	A	8519	1	471	ALCAPQPGKCFCTTKGSSG/DE CQLCEV/ENRYQANPLRGTCYN TLLIDYQFTFSLSQEDDRYYTAI NFVATPDEQNRDLDMFINASK NFNLNITWAASFSAQTQAGEE MPVVSKTNIKEYKDSFSNEKFD FRNHPNITFFVYVSNFTWPIKIQ VQTEQ
8463	38831	A	8520	1	4289	
8464	38832	A	8521	1	3488	MDYGVLTRLTGSSGFVTDGPG NYKYKTKCTWLIEGQPNRIMR LRFNHFATECSWDHLYVYDGD SIYAPLVAAFSGLIVPERDGNET VPEVVATSGYALLHFFSDAAY NLTGFNITYSFD MCPNNCSGRG ECKISNSSDTVECESENWKGE ACDIPHCTDNCGFPHRGICNSSD VRGCSCFSDWQGP GCSVPVPA NQSFWTREEYSNFKA/LPRASH KAVVNGNIMWVVGGMFNHS DYNMVLAYDLASREWLP
8465	38833	A	8522	4794	5740	YICNWKMKDSSFPSLVQSPRS PGSCGLSGWGWGCPRVASAGS ACSCNSAVPARRTQEACRRELI GGRSTIFTDVQGQWGAPGTVN EGNSACPPTLRVTVAAWLSLLF VLCRVCAASVPSLVRLRWGPQ CSGPWGA WAPPWAARVSQPG AGPGRGAEAQLLPAASIQWPC HQAPHLLLVLALVTSQGPRSCR GFCLAGPCQGGPGGLLILFCHW NVPLQFSSLFFF*DGVSLLLPR LECSGISGHCNLR L PGSSDRPA LGS*VAGDYRCLPACSANFFVF LVEKGFHHVGRAGLKL/MVIH LPRPPRVRLQA

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8466	38834	A	8523	594	2868	CWTSRNRRIPIGSCHPMELPRPF RGKAKVQNHQLVH\HNKALIN RGLTFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLPPPVNAGGGSGGGG GGGSEGGGSEGGGSEGGGSEG GGSEGGGSGGGSGGDFDYEK MANANKGAMTENADENALQS DAKGKLDVATDYGAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDDNSPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDCK RSEDLPLRHQILGGKKAIQFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHHALLILTPMSGTRF PPIPGPVVNIRVFPFAPSSECRIC YSWSWVPGSPVHCQSDGSVIP SYAPLASQYSSSFLFFRNRQPYA PYDYSVMTPSRTLREQIRIRYA PSAPRLPPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLKPFSLNPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTTFFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLFDSRGSK MTIDGINSNDIYMLGYVSNST GPYKPLNKTGLVLQMGLDPND
8467	38835	A	8524	302	409	
8468	38836	A	8525	199	359	ARRQQVSVKSYRWEEDQHCG ELQGSE*VSDGLFKPP*S*HGW VEEERQKEQN
8469	38837	A	8526	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVMMVSMMLP QLALSGWGRFRLPG
8470	38838	A	8527	118	445	AAGGEPGDAPWVPGVWEPPES VCRGPPPSSTFPHVLSFTFGASG PENSRDCLSWLSPQH*AA*VASG NNGPQAAQGLSGIPDAATLSG I*RASILHVSVEIISPGFR

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8471	38839	A	8528	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGALFPWESARSGEEE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVL
8472	38840	A	8529	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGSEGGGSEGGGSE GGGSEGGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAIDGFI GDVSGLANGNGATGDFAGSNS QMAQVGDGDN SPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
8473	38841	B	8530	1	811	
8474	38842	A	8531	1	1044	
8475	38843	A	8532	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCR TSGSVYITLKKCKQREGS RAMLPGFPTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQQQSSDLPQPPVNAGGGSG GGSGGGSEGGGSEGGGSEGGG SEG D GSEG D GSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDSVATDYGAID GFIGDVSGLANGNGATGDFAG SNSQMAQVGDGDN SPLMNNFR QYLP SLPQSVECRPYVFGAGKP YEF S I D C D K I L R G V F A F L L Y V ATFMLPVIANIAIPQKRPFMQQT RCEVQCREDIEVQKLKSYDKLL ASINKKPGVNGWQKRRITVNA GEAHDQQALDYALYHLRIMTP AHDERS S I A A K G L T G E G Y K G H VFW D T E V F L L P F H L F S D P T V A R S L L R Y R W H N L P G R A R R K R D G N G W A G G A P I S V G K A R A A A K K
8476	38844	A	8533	609	855	

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8477	38845	A	8534	369	1278	GHTACEWYSQGRHPGPELSPFL *GPG*NAGHVISMPAARPMPC LGTGGLDVLLHHLRPDLPPAAL PGSAWPGEALPLPGQVSGRG RSAACLQPGAWPGRGAAPVRR RPRPAAAGSVREAELLESPLA AHRDC*LARKLNSGGYIPQA GKHAGLPLPGARALSCGCRAR APVPAALPHPLLDHQDPGAGR IYGTGAGTQTLTGSAAPRTSRAL GSTQMPEARPLAGWGVAGV WSRG*SR*TRGSAS/SPRPRRCA LLALPGAASVSGDLRARNPRGSR PPKAPSGRGGPLPPHRSTPRR
8478	38846	A	8535	3	2494	YQRQSSSPEDPAETASPTYALIA ACQSEIQLQTRQQPCDMPGGL DCDPVKGSSSRKRMFLMNAPPV VALQPKWEASVPPGSFRFPECF SEADKGVESMSPTMHKELPAL AACGLVADFDVPGEEETADFG PLVLDSDSDSVDRDIEEAIQ L/KGGGSRCKRELAHSS/APTAL CSPKLVPGSGG/GGPGSQVGSS KDQGSASPVMSRADSFEQSIR AEIEQFLNEKRQHETQKCDGSV EKKPDTHENSAKSLSKSHQEP TKVVHRQGLMGVQKEFAFCRP PRLAKTNVQPRSLRSKVTTTTT QEKEGSTKPA TP/TRPSEAVQN KSGIKRSASTARRGKRVTSVQ APEASDSSSDGIEEAIQLYQVQ KTRKEADGDPQVRVQLQEERA PAPPAHSTSSATKSALPETHRKT PSKKKPVPTKTTDPGPGDLAD HSPKIPKETKAPPPTSPASRSKF VEWSSCQADTSAELI/VLDIFK TILP/APMEGSDGSLASPLFYSP NVPSRSDGDSSSVSDSDSIEQEI WTFLLKLVQSRLLARGAAGQ APERVEKQAPAGAEELPKSKRD SCEGSRKKPSPVFGSRAERTKP RPSCSSVSDSDSIELEIRKFLVE KAKESGVPGQAQPCWLKPTLA GEEGLRSPAKQEGLTSAIVAGIS AALGPEHTWVPGATTPTPSVA PVLVPAVPTHWKKLAPACGGP

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8479	38847	A	8536	1	2463	MHKELPALAACGLVADFDVPG EEETADFGPLVLDSDSDSVDR DIEEAIQEYL/KGGGSRCKRELA HSS/APTALCSPKLVPGSGG/GG PGSQVGSSKDQGSASPVMSRA DSFEQSIRAEIEQFLNEKRQHET QKCDGSVEKKPDTHENSAKSLS KSHQEPATKVVHRQGLMDVQ KEFAFCRPPRLAKTNVQPRSLR SKVTTTTTQEKEGSTKPATP/TR PSEAVQNKSGIKRNASTARRGK RVTSIAIQAPEASDSSSDGIEEA IQLYQVQKTHKEADGDPQVR QLQEERAPAPPAHSTSSATKSA LPETHRKTPSKKKPVPTKTTDP GPGDLADHSPKIPKETKAPP TSPASRSKFVEWSSCQADTSAE LIAVLDIFKTILP/APMEGSDGS LSASPLFYSPNVPSRSDGDSSSV DSDDSIEQEIWTFLLKLVQSRSL LARGESCPQAAQGPLSPGLSS QTGSPKAPLSKTLDP/LGCKRK HRGG\SKAQPARPRDGRAPLG WDLISQGTASEAPGGEGAARVP GDTRTSQGGKTD EARHLDKK KSSDKSSSLDSDKDLDTAID LLRESQGPAPSPGSLSDNSSVD SDDSIELEIRKFLVEKAKESGVP GQAQPCWLKPTLAGEEGLRSP AKQEGLTSAIVAGISAALGPEH TWVPGATTPTPSVAPVLVPAV PTHWKKLAPACGGPGQSLIDID
8480	38848	B	8537	1	3345	

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8481	38849	A	8538	1	1339	MTKKSPGPDSTFGHWCVISIPS GYERSRLKVTLP EEGRGALPFL VSVAISSGSCSDNNAAVPTVLE GATTVISAAA VLRDPHDGAREII LEAMTISAVAIAAEISWTSQCG LCLHPGMFMPYRHDGIRDLLP LVLSATICA EFFKGDSKKPSKK RVKRKPYSTTKVTSGSTFNENI RRYAVHTNQCRPHGSRVKKK RYPQEDDFHHTVFSNLERLDKL QPTLEASEESLVHKDRGDGERP VNARVVQVAPLRLESSKYSGIT CQENNLDAKKA/TP/CRTPYMT SLTRTPHTTSLTRILSTA/SANEA ADKGIANEDAAQIANEDAAH G\MPARMPPRASPTRSPRASPT RTPPRASPTRTPPRASPRTPPT GSPRTPPRASPTRTPSTASPTR TPPMASPTRTLPTALLTRMPCT ASLMRTPYTTSLMRVPYMTSL MTPYKAR
8482	38850	A	8539	1	3090	MHKELPALAACGLVADFDVPG EEETADFGPLVLDSDDSVDR DIEEAIQEYLKVGSSKDQGSASP VSMSRADSF EQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVT TTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8483	38851	A	8540	1	2919	MHKELPALAACGLVADFDVPG EEETADFGPLVLDSDDSVDR DIEEAIQEYLKVGSSKDQGSASP VSMSRADSF EQSIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVT TTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8484	38852	B	8541	1	1122	
8485	38853	A	8542	1	1074	
8486	38854	B	8543	1	1017	

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8487	38855	A	8544	1	1436	MNLPRALERLRSTPQRSRLRSDG EDGKIDVLGEEDEDEVEDEEE EASQQFLEQSLQPLQVARWG GVALPREHIEGGGGPSDPSEFG TEFRAPPRSAASEDARQPAKP PYSYIALITMAILQSPHKRLTLS GICAFISGRFPYYRRKFPAWQN SIRHNLSLND CFVKIPREPGRPG KGNYSWLD PASQDMFDNGSFL RRRKRFQRHQLTPGAHLPHFPF LPAAHAALHNPRPGPLL GAPAP PQPVP GAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPA/ALPVLQPSLATVK PVGQFCSNSSGIRRRRTGNGCAP TKGAVLGGHLSAASAAA AVSG GGRGLWADIARALWAERDLTS FFSIAHAQFPGRVRRALLEPGSR QPHSPTGVQKRPLL ANPAGLGQ KSSETTENRG/CPMSCQLLAGL RSNSPLSVVRKRLRADLP SFIAN KRPGRAATAAEPRRDFL
8488	38856	A	8545	1	1287	MNLPRAPERPRSTPQRSRLRSDG EDGKIDVLGEEDEDEVEDEEE EASQKFLEQSLQPLQVARWG GVALPREHIEGGGGPSDPSEFG TKFRAPPRSAASEDARQPAKP PYSYIALITMAILQNPHKRLTLS GICAFISGRFPYYRRKFPAWQN SIRHNLSLNE*FVKIPREPGHPG KGNYSWLD PASQDMFDNGSFL RRRKRFKRHQLTPGAHLPHFPF LPAAHAALHNPRPGPLL GAPAL PQPVP GAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPGTLPVLQPSLGPQPW E/RGQSGSVATGR/GCISFSIESI MQGVRGAGTGAAQSLSPTAW SYCPLLQRPSLAR TILQQQQQH QEEDCANGCAPTKGAVLGHL SAASALLRYQP VAKGLWADIA AAPLGGEGETSPVFL

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8489	38857	A	8546	202	823	AQNPTAFGVKHTSSGGEETFPN IRGIKKSPPQLSSSSIRLSKNILST TGKTVHQTRDDQPRDFFKKR NRVNESHQKSSNMNAGPSWNK VQHSKNSSGKRQSKSQVPHASS QPRSSLTAVTQPTEEKLIESISPE ARRKRNPLGFRCQGASRNKLFL DFQSMKIIKENADEDSASDLS/ SGKNSHSSFSPTSRSSQSS*RN RVNESHQKSSNMNAGPSWNKV QHSKNSSGKRQSKSQVPHASSQ PRSSLTAVTQPTEEKLIESISPEA RRKRNPLGFRCQGASRNKLFLD FQSMKIIKENADEDSASDLSDE RIPIPPSPLTPPDNLRAEEIGSSL L
8490	38858	C	8547	219	1013	
8491	38859	C	8548	252	452	
8492	38860	A	8549	25	443	
8493	38861	A	8550	20	1371	RLRGPALGAGGGSVTLRL/PRS EQAARKEAGLNTMIPLEKPGSG GSVPRRHLRLGPGSSGS*AGRA RTPPPPQARGLLTEIRAVVRTEP FQERLQPVPRAGSWAGGKFSSG EKMYKEKILGKNLLQSS*EKRR K\SQDCRMEIHEIAVLELAQDN PWVINLHEVYETASEMILVLEY AAGGEIFDQCVADREEAFKEK DVQRLMRQILEGVHFLHTRDV VHLDLKPQNILLTSESPLGDIKI VDFGLSRILKNSEELREIMGTPE YVAPEILSYDPISMATDMWSIG VLTYYMLTGISPFLGNDKQETF LNIQMNLSYSEEEFDVLSA VDFIRTLVKKPEDRATAECL KHPWLTQSSIQEPSFRMEKALE EANALQEGHSVPEINSDTDKSE TEESIVTEELIVVTSYTLGQCRQ SEKEKMEQKAISKRFKFEEPLL
8494	38862	A	8551	1	1275	
8495	38863	A	8552	1	4173	

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8496	38864	A	8553	2	5115	PDQFHNMDLRGGPHDGVITPRS TSDTDLVTSDSRSTLMVSSSY SIGHSQDLVIHWDIKEEVDAGD WIGMYLIDEVLSENFLDYKNRG VNGSHRGQIIWKIDASSYFVEPE TKICFKYYHGVSGALRATTPSV TVKNSAAPIFKSIGADETVQGG GSRRLISFSLSDFAQMGLKKGM FFNPDPLYLKISIQPGKHSIFPALP HHGQERRSKIIGNTVNPIWQAE QFSFVSLPTDVLEIEVKDKFAKS RPIIKRFLG
8497	38865	A	8554	202	260	ARVHQPVSLKQRFPLELGRHH QDSEAHAPPPGAAASRGGI*V AWPAPRAGVVSLLGCRSSWTA AMELSAEYLREKLQRDLEAEH VLPSPGGVGQVRGETAASETQ AGERVPSRRAPAHPCCL
8498	38866	A	8555	72	578	GSKGSVAGARAWVVSLLGCRS RWTAAELQRRIPPREAAAGP WRRSMWRWTRPSTVAPVASE SWWCRPSSRGNRFCQRHSLDPS MTIHCDMVITYGLDQLENCQT CGTNYIISVLNLLTLIVEQINTKL PSSFVEKLFIPSSKLLFLRYHKE KEVVAVAHAVYQAML
8499	38867	A	8556	299	939	LPSPGGVGQVRGETAASETQVL YRAMRRVTAANQAFFSEAEVT AAKERGIVLPLRC\DP\QTIHCD MG\ITYGLDQLENCQTCGTNYII SVL\NLLTLIVEQINTKLPSFVE KLVIPSSKLLFWRYHKEKEVVA VA\HVL\SRPMLQLGRNIPCFG RTAY*V*YWGRKWTCGPLNNL PGTVCNFPEACSEIKHEAFKNH VFNVDNAKFVVKFDLN

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8500	38868	A	8557	1407	2783	SSAASHSSSPGAASRARATAGS RRRSSPIQSCHPPASACGQSGQS ETHRLAMRNRTPPS*GFSSK/H MRRSSSLASS*RG*KSVAVIL*IS ASGILPTDVHLSPTPGSSECHR PHPGH*EPSDCLQKLPASALG*S *QEQLSHNSPRSA*AQYA/ESSG NSFFSSK VGD*RFTTTVA\PGGP GRRTLPGKPSPEHPHRLPELPPP RSPAQVCDQTLVAPHDHNTAG/ TPGDQVCLTLVSTSRSLSVLSK GCFFLHHSTLSVQAGVRHLSLV S*AAEPTSYL*VGPKLMAPS*K LKIRTRKPRADDSPGTSRYSSA HTRTRKPRADDSPGTSRYIAH TRMWKPRADDSRH\SRYSTGCR SPGQMTLHAPADTALHTPG/PR KPRADDSPGTSRYSTAHTRTRK PRADDSPGTSRYSTAHTRTQKP RADDSSTGTSRYSTPLASRRHRI AASASWALVVLICLTL
8501	38869	A	8558	92	1817	PLRNTGLCRGKGHPGLESSGSR RRRDGRASERRQTORERGKTLP CSSHSPWWLKANASAPAVWSQ AHRTQKPRADDSPGTSRYSTAH TRTRKPRADDSPGTPDTALQTP GRRSPGQMTPGTSRYSTGRGSP GQMTPGTSRYSTERRSPGQMTL QTPADTAQDAEAQGR*LQAPA DTALHTPGRRSPGQMTLQAPA DTALHTPGHRSRGKMTLQAPA DTALHTPGRGSPGQMTLQAPA DTALHTPERSEPGQMT\PRRPA DTALHTPGRGSPAQMTLQAPA DTALHTPGRRSPGKMTPGTSRY SIAHTRTRKPRADDSPGTSRYST AHTRTQKPRADDSPGTSRYSTA HTRMRKPRADDSRH\SRYSTGCR RSPGQMTLQAPADTALHTPG/P RKPRADDSPGTSRYSTAHTRTR KPRADDSPGTSRYSTAHTRIRK PRADDSPGTSRYSTAHTRTQKP RADDSRHQQIQHRMQKPRADD SPGTRRYSIAHTRTRKPRADDS PGTSRYSTAHTRTRKPRADDS PGTSRYSTAHTRTQKPRADDS PGTSRYSTRAGCCPPGLASSAWAGL RLKTRKGWTW

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8502	38870	A	8559	13	299	EKGQDILQNLFWQLRHGPIMSS PSASNTGWGSSS*SIVPSSTVSS WSTAMKLSSSLSEELAMTFHST ENIVVLGWVQWLTPVVPALWD SEAGRSP
8503	38871	A	8560	337	1879	VHVGAAARRGFGVYPVLSLTVS GTQNCGPCLQTVVSTYQRV*PI SVIMVS*RLSRKETFSGRAVPILI LEPQSLASRTVHAIMM/HNQS MYVFGGCTQSSCNAAFNDLWR LDLNSKEWIRPLASGSYPSPKA GATLVVYKDLLVLFGGWTRPS PYPLHQPERFFDEIHTYSPSKN WWNCIVTTHGPPPMAGHSSCVI DDKMIVFGGSLGSRQMSNDVW VLDLEQWAWSKPNISGPSHPR GGQSQLFKDAWLLHMHSGPW AWQPLKVENEEHGAPELWCHP ACRVGQC VVVSQAPSGRAPLS PSLNSRPSISATPPALVPETREY RSQSPVRSMDEAPCVNGRWGT LRPRAQRQTPSGSREGSLSPAR GDGSPILNGGSLSPGTAAVGG SLDSPVQAI SPSTPSAPEGYDLK IGLSLAPRRGSLPDQKDLRLGSI DLNWDLPASSNPMDGMDN RTVGGS MRHPPEQTNGVHTPP HVASALAGAVSPGALRRSLEAI KAMSSKGPSASGRH
8504	38872	A	8561	25	313	

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8505	38873	A	8562	1	1409	MIERVLEGKWALSRAEGLHRH QCLEFLIHLVFQLMKVVNEMCP NITRIYNIGKSHQGLKLYAVEIS DHPGEHEVGEPEFH YIAGAHGN EVLGRELLLLLVQFVCQEYLAR NARIVHLVEETRIHVLP SLNPDG YEKAYEGGSELGGWSLGRWTH DGIDINNNFPDLNTLLWEAEDR QNVPRKVPNH YIAIPEWFLSEN ATVAAETRAVIAWMEKIPFVLG GNLQGGELVVA YPYDLVRSPW KTQEHTPTPDDHVFRWLAYS Y ASTHRLMTDARRRVCHTEDFQ KEEGTVNGASWHTVAGSLNDF SYLHTNCFELSIYVGCDKYPHE SQLPEEWENNRESLIVFMEQVH RGIKGLVRDSHGKGIPNAIISVE GINHDIRTA\TDGDYWRLLNP\G EYVVTAKAGRFHCIHPRTCMV GYDMGAHK/CLNFTLSKTN\LA RIRRDHWRSFGKAAPSALPSPG G*KLRG\RKRRQRG
8506	38874	A	8563	3	749	KTDHILGHKTCLKTFRKIEIISGI LSDHSGIKLQINNKG NFGNHTS TWKLNNMLLNDQ*VN EIKKEI *NHPETNDNGNATYQNL*DTG KEVLRGKL/IPISTYIK*VEKLQI NNLTMHLKELEKPEQTKRKITR RKEIIKIRAEINEIEAKKTIPKFN ETNSWFLENIHKTNEHLARLRK KDPNKIREEKEDIITDTVEIQRII RSYYAKK WENLEETDKFLDTY NLPRLNNEEVQNL SRPITTTVPI
8507	38875	A	8564	1	842	

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8508	38876	A	8565	1	1203	VPFLFGNCRQLLEEVEVAT*PR RFRDSPGGSVQGLWTSRRRAAE MLFPVHLVRPRM*ILERFVPHA LDYLLGSRLFKEPLPLKQVNPS RSLDHLQRAAREHFINYLTQCH CYHVAEFELPKTMNNSAENHT ANSSMAYPSLVAMASQRQAKI QRYKQKKELEHRLSAMKSAVE SGQADDERVRGYLLHLQRW VDISLEEIESIDQEIKILRERDSSR EASTSN\SSRQERPPVKPFHSHF GTWLHSQSTFGAGYSKGWPTY RTVS\DWYE\QHRKLWSTYPDQ GIAKAAPEEFRKAAQQQEDQ\ KKRRKRMRTKQLPQSPGVGM TGSDTHP*GPMGTDRTWADLP TTPQD\SGVHTPLPRKTMQSSP PPVSWLQLCTTEGKDAKSCFAF SKVSSDLSVYLYP
8509	38877	A	8566	1	995	GTKELLLT*LGGSPLLLT*TKPL GVDPL\LKGGVTQGFNEKAVFA ALRPSYGGPAGKPAFAGAMSL AGAQQSLWSVEGGNKLVCSSL LKLTKANVIHATVTSVTLHSTE GKALYQVAYENEVGNSSDFYD IVVIATPLHLDNSSSNLTFAGFH PPIDDVQGSFQPTVVS LVHGYL NSSYFRFPRP*AFPL\SNILTTF PSFFCTLDNICPVNISASFRRKQP QDAAVWRVQSTKPLFRTQLKT LFRSYYSVQTAGVGRANPLYG FRPHGFPRFALHDQLFYLNAL WAASSVEVMAVAANKVAFW LYNRWYQDLKIDQKDLMHK
8510	38878	A	8567	1	372	

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8511	38879	A	8568	1	1699	MHAKSIKTQALADMEKLKVVV RDKNWVARIIPQMTSKGHVGV TTTSSAKLKSQ GKDSVAVKRV RSGLMIGFRFMVIPYSGFPQVL MEIPKDADKLLCPSCAAVVLG QKKHETQTLSELKELPVQDNVV PKEDPGTWEWRTVKEGILEEV MCWLQSRVEGDWAKEERKIFH EGELAEAKAGRGG LASCTCCPL TPGKMAGPWTFLLCGLLAAT LIQATLSPTAVLILGPK\VIKEKL TQELKDHNATSILQQLPLLIAM REKPAGGIPVLGSLVNTVLKHII WLKVITANILQLQVKPSANDQE LLVKIPLDMVAGFNTPLVKTIV EFHMTTEAQATIRMDTSASGPT RLVLSDCATSHGSLRIQLLHKL SFLVNALAKQVMNLLVPSLPNL VKNQLCPVIEASFNGMYADLL QLVKVPISLSIDRLE/F*PSVSCH QG*HHSALPGGQVVGLTGKGD QVVHNSAASLTMP TLDNIPFSL IVSQDVVKA AVA AVLSPEEFM VLLDSVLPESAHLKSSIGLINE KAADKLGSTQIVKILTQDTPEFF YRPRPCQGGPTDRAGSVSLQ
8512	38880	A	8569	1	1060	MGLPAQGVGGNTLAKLLASDD IAKGGKR NKSEASVVRNAADA PKVLQDLSARLMGDFELRNCN SPCTLLIGIVVLINAAAETLVFLS DHMEDQGSSQLNVAVLSYFQQ QDPEGQKEETAGIDLMDMASDI LQPKGDDVARISWYLRDIITRY QETFNVIERCPKPVIAAVHGGCI GGGGAAPMPRPLASSLSVM GQTVSQEAAPPGSQGWFWWS FSIPGLYLLGVDLV TACDIRYC AQDAFFQVKEVDVGLAADVGT LQRLPKVIGNQSLVNELAFAR KMMADEISSKSPVALQ/S/TKVN LLYSRDHSVAESLNYVASWNM SMLQTQDLVKSVQATTENKEL KTVTF SKL
8513	38881	B	8570	331	1200	
8514	38882	A	8571	3	379	TSLTFHSPEVPSS*PPSCTR*AGA ARGPRPPGAAGRPR*SC*GPPGT RRWQS*GGTSPLGPVPGGRSGA ASCGLPDCEL*PLKRSAQGRNQ CPV*SSPRSWSRSRSEPCAARG WPPSACRHGNRR

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8515	38883	A	8572	384	1718	SLQLPRGLLPESCAADPGA*PPS CTR*AGAARGPRPPGAAGRPR* SC*GPPGT/PALAKPPSCPVVTS AAPTQARPMIKPQGAAWSTQK LPIPTSASPTQKSPIPTSASSTQK LPIPTAAWSTQKLPIPTAAWST QKLPIPTAAWSTQKLPIPTAAW STQKLPIPTAASSTQKLPMPTAA SSTQKSPIPTAASSTQKLPIPTAA WST*KLPITRAAWSTQKLPIPTA ASSTQKYTIATAASYHAKATDA WST*KLPIPRAAWST*KLPIPTA AWSTQKLPIPTAASSTQKSPIPT AASSTQKLPMPTAAWSTQKLPI PTAAWSTQKLPIPTAASSTQKL PMPTAASSTQKLPMPTAAWSTI TTMGATTHGPSTDTQNVVFLH PRCPEQASSQSRGAGAD*GLSN PKVSSAEAPSCAKDEPEVEKGR GPAPWTSQRWRRRAVGRPRG
8516	38884	A	8573	302	543	KLHLGWGKTPG*HWGLY*NLP RLNGPNSLMPSLRRVRRNKAR QVTSIAGCALQMEQWMHGMT RHPTRISTPITAAREVRI
8517	38885	C	8574	253	396	
8518	38886	A	8575	1107	1751	LQDLSQYFGGSQLIKT*IG*TTSI ITNSNL*TTLEM/SVKGIAEQLG TNCQMAWENRIALDMILAERG GVCIMIKTECCAFIPNNTAPNGS ITKALQGLTALSNELASSGVN DPFTGWLEKWFGKWGITASIL TSLTAVMGVLILVGCCVIPICIG LVQRHRGPPLVVIETKPLGLER LAGLPVGHALKLGSQIQATPQN GENADRREAFPAAS
8519	38887	A	8576	1	1365	
8520	38888	A	8577	3	263	QLILKDKFITQSAADIKEKLQKS TLGPERNLKTLNLAT/CCFL** RSGGAGGTGQTR*EKGHHFSH GPRASGLWRLWNAESLGKSNA
8521	38889	A	8578	365	470	
8522	38890	A	8579	1	1278	
8523	38891	A	8580	23	257	
8524	38892	A	8581	1	1812	

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8525	38893	A	8582	265	699	LLGSTVLFHDPQLLIELYHSSHG PKVPFLGIREAKNSRSENTRLAT ILGAGLLPSWKWFTTILGAL*A RTPR*HFGNH/VTDIQS/RIEAVK LQMEPKMQSKTKIYRRPLDRPA SPRSDVNDIKGTPREEISAAK\PL LRPNSAGSS
8526	38894	A	8583	2	181	
8527	38895	A	8584	1	69	
8528	38896	A	8585	1	674	MDLNYTLEQMDLTDIYRTFHPT TTEYTFYSTGHGTFSTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLNECWVKNKMKMEIKKLF ELNDNNDTTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKKNHMIISIDAEKAFDKIQH PFMIKTLISKISIRGTYLNLIKDI/S *QTHSQHNAEWGKIESIHSENW NRG
8529	38897	B	8586	1	415	
8530	38898	A	8587	1	516	
8531	38899	B	8588	110	382	
8532	38900	A	8589	140	253	QNKACQHPPKITRVHQQWQIQT KKKSSIYLLKKEFRRLVIKLIREA PEEGKAQCCEVQKLIQKVQGEI IDEIDTINKKQPKLQETMDTLTK MQNAQESLSNRIEQEEHSL ENIFGSIMEENFPSLARDLDSQI QEAQRTPGKFITKRSSPRHIVIR LSKVKTKERILRVVRQKRKIVL KS*PGNMTKQGLSTSPKNHTSS PTMDPNQEEILDPEKRIQEVSY
8533	38901	A	8590	89	194	
8534	38902	A	8591	2	633	

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8535	38903	A	8592	298	2648	GSSKILLFNQNEDDKINFELFFF FVASALVLVQKAFSRSSWSSMA LADKRLLENLQIYKVLQCVRNK DKKQIEKLTKLGYPELINYTEPI NGLSALHLASVSNDIDMVSFLL DLGAHPDVQDRMGCTPTMRA AELGHELMSMILAKAKADMTIV DNEGKVLEGTGGLTSSPLAHIA VALHIPRRDTQGVLFYCILPTKR HYRCALIALEHGADVNNSTYE GKPIFLRACEDAHVDKDVCLTF LEKGANPNAINSILKLLFAYNG DVGLISINGNTPLHYAAMGGFA DCCKYIAQRGCDLKWKNL DHK TPRAVAKEGGFKAASKEIRR/C RENR**TSQARSQKSQIPLWAL RLHDWSVEREAFLEAFVLD RGDGSISKND FVMVLEE\SRIM QAQNSWLPFAHLHEKTRGGGV NIN*ILLKEPDILNKS FVLGSYGP KKKEKGMGKKGKKGK FVLPLP ICVIPEYAFPRRQDGGPPYYMIE TYKNVTDSSRFNRDHPPEHPIQ DDSVWYIDDSEK VFSNINIITKA GDLASLKKAFESGIPVDMKDN YYKTPLMTACASGNIDVVKFLL EKGYASPSGQQDIVELLVESGA LIDAASINNSTPLNRAIESCRLD TVKYLLDIGAKFQLENRKGHSA MDVAKAYADYRIIDLIKELDN LPKPAENQKLKGKTPPILKTEG PEIKKEEELLSSIYGVPTTSEGK
8536	38904	A	8593	3	838	MGRGWTQAVGPRWSGGSSCTL YSVGADGRGQGHQSRGCRPPG PPSASSAPCLAWGAAGRARE GLRQNAERSSPLTAPAGRP*PC GAGPCRR*SR*R\PLVGCLRPW ASPGTGAACGRCCCP*P/P*P NPWHFTVSKAFSYMPSTTA/RL VRGPRLLVGPVPVAPYIPP/PGS PASRRGSRGRSRPSRPRPSV LSCHGVSL*TGPSLPGWLLQIW QRSAQMS/P/PPKGPP*GSREGPP PP/GPALLPAAAPGGQGHRA AGSCGRRAAARMWVRNSPP
8537	38905	B	8594	1	2700	

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8538	38906	A	8595	1	1240	FPPYATNEIGKVTGLNRRELGH GALAEKALYPVIPRDFPFTIRVT SEVLESNGMRRIGQPPASSRPV RRVRAPLPPPLLEVRAPLPASRP SGEVLCTVTFDSLESIGSDQVI TAINGIKDKNFMLHYEFPPYAT NEIGKVTGLNRRELGHGALAE KALYPVIPRDFPFTIRVTSEVLE SNGMRRIGQPPASSRPVRRVRA PLPPPLLEVRAPLPASRPSGEVL CTVTFDSLESIGSDQVITAINGI KDNFMLHYEFPPYATNEIGKV TGLNRRELGHGALAEKALYPVI PRDFPFTIRVTSEVLESNGSSSM ASACGGSLALMDSGVPISAV AGRTN*DWSPKPDPEKGEIRKII VC*QIFLGIEDYNGDMDFKIAG TNKGITALQADIKLPGIPIKIVM EAIQQASVAKKEILQIMNKTISK PRASRKENGPPVETVQVPLSKR AKFVGPGGYNLKKLQAETGVT ISQVDEETVFCNLHQHPVLMLE GKRLSFTEICKDDQEQAIRNLG AVILPAHNNWKSEILGVMGKII
8539	38907	A	8596	152	305	DNQNGKLIKCS*PCNFVHRAPY AVEITVLRFHCHNWTQVQAQRE RTFLILIK
8540	38908	C	8597	414	611	
8541	38909	B	8598	1	403	

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8542	38910	A	8599	1	1702	MDSDEGYNYEFDEDEECSEEDS GAEEEEDEDDDEPDDDTLDLG EVELVEPGLGVGGERDGLLCG ETGGGGGSALPGGGGGGGGGG GGGGGPGHEQEEDYRYEVLTS EMILQHMVECIREVNEVIQNPA TITRILLSHFNWDKEKLMERYF DGNLEKLFAECHVINPSKKSRT RQM\NTRSSAQDMPCQICYLNY PNSYFTGLECGHKFCMQCWSE YLTTKIMEEGMGQTISCPAHGC DILVDDNTVMRLITDSKVKLKY QHLITNSFVECNRLKWCAPD CHHVVKVQYPDAKPVRCKCGR QFCFNCGENWHPVQCKWLK KWIKCDDDDSETSNWIAANTK ECPKCHVTIEKDGGCNHMCVCR NQNC\KAFCWVCLGPWEPHG\ SAWDTVPV*NEDDAKAARDAQ ERSRAALQSYLFYCNRYMNH MQSLRF\EHRLYAQ\VTQTMEE MQQHNMSWIEVQFLKKAVDV LCQCRATL\MYTYVF\AFY\LKK NKPSFHIFENNP\KARFDENATE GLSG\YLGTRKFPKDS\LQDIKQ KVPRPSTRYCESRRKGFVTSMC HEGYEKDLWEYIED
8543	38911	C	8600	118	219	
8544	38912	C	8601	16	408	
8545	38913	B	8602	1	996	
8546	38914	B	8603	1	1302	

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8547	38915	A	8604	983	2127	DNWKSIRGSCWQDPRELLTFM APCIGVVVMQTTR*K*NTLAGH PSAGVCWCVTSAAACTGAWD ATSPLSSTFATAPGLPRCCSQAS PAPRAEPLHGQPGAPPHALKRP PGLPWP*PQEARQYRHNQAYA YSIQGDGAEDDDERIVRFHTRV INHKKRKNSPRIVQSNDLTEAA YLSRDQKRMLYLFVDQIRKSD GTLQEHDGICEIHVAKYAEIFGL TSAEASKDIRQALKSFAGKEVV FYRPEEDAGDEKGYESFPWFIK RAHSPSRGLYSVHINPYLIPFFIG LQNRFTQFRLSETKEITNPYAM RLYESLCQYRKPDGSGIVSLKID WIIERYQLPQSYQRMDFRRRF LQHIFVLRERPETVLIDLIQRTK DAVRELDNLQYRKMKKLLFQE AHNGPAVEAQEEEEYGWNL RAYDYVKERRTVTKPNPSFMR QLEEYQGILLARPKRTAYIYGS VYRRCGYADHKVEIKHPGWAS ISRGVLVCDECCSVHRSLSGRHIS IVKHLRHSAWPPTLLQSGFPGP SRRAPRAARGPTPRTEEA AAMALTFLVLTLATLCTRLH RNFRRGESIYWGPTADSQDTVA GSPDHGLLAFAYHRLVRFLLW VLCPGWAFFLVNSSRGGVFNPI LHPCPRHGQARFAGVGRAEDV TFLYHPCAH PWLKLQLALLAY ACMANPSLTPDFSLTQDRVDIE
8548	38916	A	8605	1	224	RKQEWLSKQKENIQHFQAE ANLLRRQRQYLELECRRFKRR MLLGRHNLEQDLVREELNKRQ TQKDLEHAMLLRQHESMQELE FRHLNTIQKMRCELIRLQHQTE LTNQLEYNKRRELRKHKVM EVRQQPKGLKSKELPNKKSSFQ GYLQNSQTRQYKALRNHLET TPKSEHKAVLKRLKEEQTRKLA ILAEQYDHSINEMLSQAVSLLF LGQNKFSAPFLPPP*AVSEQLCA HSLV

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8549	38917	A	8606	1051	1875	SDQLTAHLLNCVEVAELQFLHR FMLSFIPIHHLRLFTAPAQDASL VPLKGDILGVKLSGDDGRGKP AQHLFLSGLSSSQQLPVLP SQ CQSLCVHHPAVVVNLHDHGAC VSCLPDLGP*QSCGSLAARSC GQSPGVWCLPSGSGRSSTLCRC H*GRSWTPGAPS**TPISSRRSP GPCAASPGARGCPPAASPPAGS PGTEAPAAPAPGPGYSQPPGAL SSRCDSPCPLRRAPGAHGHTP RCPSVVARCRGVRPRGSSCSMS TSLTRSCSKL
8550	38918	A	8607	714	2148	MPAVAKSKFINRSKRRMCPQV LRSASPIQEGEKISANENSLAVR STPAEDDSPGDSQVKSEVQQPV HPKPLSPDSRASSLSESPPKAM KKFQAPARETCVECQKTVYPM ERLLANQQVFHISCFRCSYCNN KLSLGTYASLHGRIYCKPHFNQ LFKSKGNYDEGFGHRPHKDLI GQAKMKTEEILER\QPQLANAR ETPHSPGVEDAPIAKVGVLAA MEAKASSQKEKEDKPAETKKL RIA WPPTELGS SSGSALEEGIKM SKPKWPPPEDEISKPEVPEDVDL DLKKLRRSSSLKERSRPFTVAA SFQSTSVKSPKTVSP\LRKGWS MSEQSEESVGGRVAERKQVEN AKASKKNGNVGKTTWQNKES KGETGKR/R*GKVHSELMENEN \FV\ENGARLPEDDNQLPPKQQ SSTKNPSLLEFGPSFVDNHL LK EFTT\QNQKSQDVELWEGEVVK ELSVEEQIKRNRYYDEDEDEE
8551	38919	A	8608	1	4479	MCFSPKKLYKHEIHKLDLTCL KPSIESPLRQNRSRSEEEQKQE ENGDSQLILEKIQLPQWSISLNM TDEHGNLVNLVCDIKKPM DVY KIHLNQTDPPDIDINAMVALDF EYPMTQENYENLWKLIAYYSE VPMKLHRELMLSKHPRVSYQY RQDADEEALYYTG VRAQILAEP EWIMQPSIDIQLNRPQSTAKKV LLSYYNQYSQTIATKDTRQARG RSWVMIEPSRAVQKDQTVLEG GRCQLSCNVKASESP

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8552	38920	A	8609	1	9009	MDEFAPGKHLATSGDLFGDHN YGRRTYHTLEVKCAEEHPAVS DPFQRQSLRALSPLESLPPSSG LRSGLTKELELLMIHGNEIPSIPD GALRDLSSLQVFKFSYNKLRVI TGQTLQGLSNLMRLHIDHNKIE FIHPQAFNGLTSLRLLHLEGNLL HQLHPSTFTFTFLDYFRLSTIR HLYLAENMVRTLPAASMLRNMP LLENLYLQGNPWTCDCMRWF LEWDAKSRGHSCRGCAHSLSH EIQLAKGFCEMLLL
8553	38921	A	8610	1	4971	MKASGILKCKKDKAYEGGQLC AMCFSPKKLYKHEIHKLDLTC LKPSIESPLRQNRSRSEEEQKQ EENGDSQLILEKIQLPQWSISLN MTDEHGNLVNLVCDIKKPM DV YKIHLNQTDPPDIDINAMVALD FEYPMQTQENYENLWKLIAYYS EVPMKLHRELMLSKHPRVSYQ YRQDADEEALYYTGVRQAILA EPEWIMQPSIDIQLNRPOSTAKK VLLSYNQYSQTIATKDTRQAR GRSWVMIEPSRAVQK
8554	38922	A	8611	1	1283	LSFTTCSTFTSNYRSLGPAQAPS YG/SRPVSSVASVYAGTGN SGS RISVSCSTSFSGMESGGLAAG MT/GGLAGMGGIQNEETMQSL ND/*LASYPDRVRHLETKNRKL ESKIWEHLEKKGQVRDWSHY FKTIRNQRAQSLAITVDNACIVL QINNTHLAADDFRVKYETELA MCQSVESNIHGLCKVND DTV TRLQLETEIKALKEELLFMKKN HEEEVKGLQAQIASSGLTMEVD P\KSQHLAKIMAAIRAQYDELA WKNGEELDKYLSQQIEESTTVV TTQSAKAGAAEMTLTEL RCTV QSLEINLNSMRNLKASLENSVR EVKACYTLQMEQLNGILLHLGS ELAQTQAKGQCQAQYEALLN IKVKLEAEIATYCHLLEDGKDF NLGDALDSSNSMQTIPKTTTHQ RVDGKVVSETNDTKVLRH

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8555	38923	A	8612	2	1365	RPOSLSPLVLSLSPDSMSFTTRST FSTNYRSLGSVQAPSYGARPVS SAASVYAGAGGSGSRISVSRST SFRGGMGSGGLATGIAGGLAG MGGIQNEKETMQSLNDGVASY LDRVRSLETENRRLESKIREHLE KKGPPQVRDWSHYFKIHEDLRAQ IFANTVDNARIVLQIDNARLAA DDFRVKYETELAMRQS\VENDI HGLRKVIDDTNITRLQLETEIEA LKEELLFMKKNH\EEEEVKGLQA QIASSG\LTVEV\DAKPSQDLAK\ IMADIR\AQY*RAGLGKNREEV\ DKY\WSQQIEVSTTVVTTQSAE V\GAA\ETTLTELRRRTVQS\LEID LDSMRNLKASLENSLREVEA/R RTPLQMEQLQRGSLHLESELA QTRAEGQRQA\QEYEALLEHQ GSSLEAEI\ATYRRLLEDGEDFN L\GDALDSSNSMQTIQKTTTRRI VDGKVVS\ETN\DTKVLRH
8556	38924	A	8613	170	399	
8557	38925	A	8614	141	287	LPSRRAGLGTCSPCLSLPPASR APVRPEPLR*APPPAPRRPVPST TQG
8558	38926	A	8615	356	574	
8559	38927	A	8616	552	770	
8560	38928	A	8617	158	368	
8561	38929	A	8618	1136	1410	
8562	38930	B	8619	1	631	
8563	38931	B	8620	321	2234	
8564	38932	A	8621	170	444	
8565	38933	A	8622	325	722	LIELRHLVFFVLLLFRDLQHIMA CNMRDAVRFFVCFLVIFFREGL SRSSGA/DDRFLAGP*LLSRGAG LGTCSPPCLSLPTPWAP/AAAP ASLTVTPPPAPRRPVPSTTQGLRS ASARHGTGRQLHLQPRCGIH
8566	38934	C	8623	1	1449	
8567	38935	A	8624	326	626	LPSHGAGLGTCSPCLSLPPPLW AP/AAAEPPRQAPPPAPWCPVPS TTQGLRNASTRRTGRQLHMI WPFASLKSSPATLPCEHCAPT LTFSCSSNMQT
8568	38936	A	8625	2009	2227	
8569	38937	B	8626	182	1513	
8570	38938	A	8627	497	761	NHTSCLPLGPGTTAEELPSLVA GFGTCSPCLSLPPTPWAPVRPE PPR*APPPAPQRPVPSTTQGLRN ASTRHRTGRQLHLQPRCGIH

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8571	38939	A	8628	218	855	GAGLGTCSPPCLSLPPTQRAPV RPEPPRRAPPPAPRRPVPSTTQG LRSASTRHRTGRQLHLQPQCGV H*VKPAGLLSLALETRTNPAA/ DKHLWQSIISLQLKSDLLKEML GSQTGNGNVQDVLRYLVKSET QKAIVSLDCVRKRYRSSL QLKLCDCWGQALFSSALTDP KEVVVRDLEELSNYKTTLEGSG IFDSVARVREESEAEGT
8572	38940	A	8629	350	615	
8573	38941	A	8630	186	566	RLSPAACRSGMTMIFPSIHPSQC RMIGLGWKK*SSVHNATPWAP VPPEPPGRAPPPAPGRPVPLTTQ GLRSASARRRTGRQLHLQPQCG IHWVKPAGLLSHEGPRLRSSQ SDQEPTNSGHS GMCL
8574	38942	A	8631	656	874	
8575	38943	A	8632	415	634	LPSRGAGLGNCSPCLSLPPTPW APVQHKPPRRAPPTPRHPVPS TTQGLRNASAWRRSGRHLHLQ PQCGIH
8576	38944	A	8633	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEDP NCHEQHLSNTATHLGTDAQEVI DGRRKPEESRTTSHICRCRS

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8577	38945	A	8634	1	1743	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSQYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK FARFEGTASSGKTKFLPRFRISF LMAAIVKPPEPIPLKWLTDKPI WTEQWPLSKEKLEALEDLITQQ LKKGHIAPTFSPWNSPVFIKKK SAEQDCEWFVFTILAVNNLQLK PAKRFWKVLPPQGNQPIWIP SRYLKPYPHPDAKEEIEGSGQ FPVAAMSRLTLRRTPTVTSNTH RTQPPTWGQIEKLQMAEENLR KAGQPVTISNWILPRITKFKPIE GAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESR/ETPGCSHVKTDAE EDANCHEQHPSNTATHLGTQDQ EAVTDGGRKPEESGTTSHNE*F NDSGDHCLQOGL
8578	38946	A	8635	820	1344	PDGTTTRDAGRDLRSVSWETL RGCPAVRKDSIGWIRLSRTLKK NVHLCPLPRGQGLFVCPVTSSS PQHISSHRGFWNISKDAPMSWP GSYSCHNVVAPVGQGG*SRRA RMLRGLLSKAGHHSFCTDQAID LEITKFTFTWTD*VTLGQ*FMLS ES*SSCKPNSCCPVQCLVHSGG
8579	38947	A	8636	3	760	

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8580	38948	A	8637	1	1354	MGISCPGSSKMLNSRALPVLKL TQGALRDCKERANYTNFNIYK AVESQGKFVCVLYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQSLKSSKH LTNSVIVIAVGIFFSVTLQARDP QLDDAIEQLRGVCIRAWEKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQAQKAELV AVIEVLTAFDMPINVISDSSYM VYSTQLIENAQLRFHTDEQLMT LFTQLQTAFRSTMHPFYITHIRA R\HTPLPGPLTEGNQMADCLVA TAVSNARHFHNLTHVNASGLK CRYSNTWKAIAHQRRTCPQ MVHSSSF TGGVNPQGLEPNSL WQMDVTHVPSFGRLAYVHVC VDTFSHFVWATCQSGES
8581	38949	A	8638	596	1820	
8582	38950	A	8639	275	1495	RLGSSLLEYT/LPDQQGNIIATFE PFPFKFGKAHSVVDYIKACDGIG GPLTEGNQMADCLVANASNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQQCPTCQMVHSSSF TGGVNPGRGLEPNSLWQMDVTH VPSFGRLAYVHVCVDTFSHFV WATYQSGESSACVS\KHPLLQC FVVVGIPAFIKTDNAPGYTSQA LATFFSVWNIKHITGIPYNSQGG AIVERMNL SLKQQLQKQKGN RDYR/TTP*MQLNLALLTLNFLS LPKGQMFSAEQHLQKPAKT KTEQLIWWRDLITKSWEIGKIIT WGRGYAYISPGQNQQPIWIPSR HLKPYHEPDA\RKRLQEDPEDP PSCSHVKTDAAEDPNCHQHP NTAIHLRSDQEA VTDGRRKPEE WSGTRTWWRPWSCRT
8583	38951	A	8640	232	789	ERPWGPEGNSEGSFCPKGLE\PR TCLRGPAASAAAGAEGRQDPP GGPWCSAAGDLGSPGVQSPG GGSPRGAQVAMSGSRRRAEP GVWGALQ*HRR*ARRMHSFPP SL/PLL*NG*SPLFLVSKCLTGSP LRSASPCPPAARSC*KHPDSSPG RGPGARQSPALHPALPSLARRA APGRSFPLTSRK
8584	38952	A	8641	1	149	

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8585	38953	A	8642	1	2541	
8586	38954	A	8643	1	989	MQRGQQATGSSANAWGILQPK WVQTGPDNKRMRNVLYER LLAESPNNHVVAEAVIQRPNIPL QTRDTYEGLCQTLGSQPTLYQI PSLYCSYETNSNAYLLLQPIRKE VIHLEPYIALYHDFVSDSEAQKI RELAEPWLQRSVVASGEKQLQ VEYRISKSAWLKDTVDPKLVTL NHRIAALTGLDVRPPYAEYLQV VNYGIGGHYEPHFDHATSPSSP LYRMKSGNRVATFMIYLSSE AGGATAFIYANLSVPVVRVVQ/ WPGTS*AFDNQCQNAALFWW NLHRSGEGSDTLHAGCPVLV GDKWVANKWIHEYGQEFRRPC
8587	38955	A	8644	2	505	AWLKDTVDPKLVTLNHRIAAL TGLDVRPPYAEYLQVVNYGIG GHYEPHFDHATSPSSPLYRMKS GNRVATFMIYLSSEAGGATAF IYANLSVPVVRVVQ/WPGTS*A FDNQCQNAALFWWNLHRSGE GSDTLHAGCPVLVGDKWVA NKWIHEYGQEFRRPCSSPED
8588	38956	A	8645	298	401	KKSLVRRSRMRKELKKKIGQ Y*RLGLRKGKAI
8589	38957	A	8646	1	417	FRAAPAPESGGESVFGETHRAL QGAMEKLQR/RLWKEKVDLKE RVEKLELQFIHLSGQTDITGRK YISQGAVSETQHWE/KEDIVRL AQDQEEMKVNQLQELR/EQVLQ LVGDHKEGHGK/FLTIAQNPAD EPTLGAPIAQELGC
8590	38958	A	8647	2	430	AAVKPLGSAETA VPIARLGCR FSRSRCCRRRGRGSLLSFSAK VAFFNSAGANAQEEQRVCCQP LAHPVASSQKKPEVAAPAPESG GESVFGETHRALQGAMEKLQR/ RLWKEKVDLKERVEKLELQFIH LSGQTDTHNKISY
8591	38959	A	8648	1	2769	
8592	38960	A	8649	1	314	FVNLFEIPVRVVEFGATCRAVA EPEQQR*SPSARPPCPLLASV AAALAAAAAAAAGGEAAYCL SPRRR*GAVSARPAGEPREPHE WDNRRSDFKRRRRGRDG
8593	38961	B	8650	46	307	
8594	38962	C	8651	1	4584	
8595	38963	B	8652	438	532	
8596	38964	B	8653	832	927	

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8597	38965	A	8654	320	1136	RIMETIANLSSQSPVSLPLRVGL AEYLEMEED/DLDSEQEAPRPM PNIPGDLESREP/QVAFFNSAGA SAQEEQRVCCQPLAHPVASSQK KPEVAAPAPESGGESVFGETHR ALQGAMEKLQVTTLWKEKVD LKERVEKLELQFIHLSGQTDITV SERLGHRWGELPGHPRGPSI*A MSSCRKVHQPGGSVRDAALGE EDIVRLAQDQEEMKVNQLQELR/ EQVLQLVGDHKEGHGK/FLTIA QNPADPTLGAPVAQELGCAD EQGGFYPRSPDC
8598	38966	B	8655	97	235	
8599	38967	A	8656	1	2104	
8600	38968	A	8657	3	1107	FMTTDERKLFNHLKSPHLKYW VPFIWFGNLATKARNEGRIRDS VDLQSLMTEMNRYRSWCSSLF GYDWVGIPLVYTQVVTAVYT FFFACLIGRQFLDPTKGYAGHD LDLYIPIFTLLQFFFYAGWLKVA EQLINPFGEDDDDFETNWCIDR NLQVSLLAVDEMMSLPKMK KDIYWDDSAARPPYTLAAADY CIPSFLGSTVQMGLSGSDFPDEE WLWDYEKGHGRHSMIRRVKRF LSAHEHPSSPRRRSYRRQTSDDS MFLPRDDL/HSQGPTGCALKK PPQGLTHLE/DNPASQKEAPRCT SAWESCPPSGRPARQALYRA*P HSPV*ELPPSKCH\GT*GIDHSSR STSAHIRGLPP*FRYLHLEL
8601	38969	A	8658	3	397	
8602	38970	A	8659	346	474	

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8603	38971	A	8660	1	1344	MHSTWLCFPARLLKELPFPQGL FPRLTIRASRTPPAALERVTRD PCAATCLDRGSLKGILGHSPFQ SPPVTSHCAENPNTLKAPPPYV GATSALVLSLGGPVPWLSVEL SIRTFASSGLIYYMAHQNQADY AVLQLHGGRLHFMFDLGKGR KVSHPALLSDGK WHTVKT DYV KRKGFITVDGRES PMVT VVG GTMLDVEGLFYLGGLPSQYQA RKIGNITHSIPACIGDVTVNSKQ LDKDSPVSAFTVNRCYAVAQE GTYFDGSGYAALVKEGYKVQS DVNITL\FRTSSQNGVLLGIST AKVDAIGLELVDGK VLFHVNN GAGRITAA YEPKTATVLC DGK WHTLQANKSKHRITLIVDGNA GWR*KSHTPQSTPVD TN\NPIYV GG\YPAGVKQKCLRSQTSFRGC LRKLALF\RG PQVQS FDFSRAFE LHGVFLHSCPGTES
8604	38972	A	8661	3	92	
8605	38973	A	8662	2	158	HTFPTFSSSPHLVMMIQPSSSSP PPPLPPPPSS\ PPLPLPPSPPLLL FFL
8606	38974	A	8663	21	471	DGPQDQPPHQPSSSSPPPPLPPP PFPPPLPLPPSPPLLLFFCSDEA LLCCHTGVELFFVIFAYCSG/PE TEPAISPRYASSSGLNGFPLPRT PPAYA*IPSSGIHFNP SLAIKPST TTTLVRTPTTHHHSRRPTITTQS STTAP SRLHP
8607	38975	A	8664	2	105	
8608	38976	A	8665	3	265	RKDLYANTVALSGGTTMYPGIA DRMQKEITALAPSTMKIKIAPP ERKYSVWIGGSILASLSTFQQM WISKQEY\DESGPSIVHRKCF
8609	38977	A	8666	3	757	NTPAMYMAIQAVLSLYTSGRT TGIAMDSGDGVAHTVPIYEGYT LP HAILHLDLAGWDLTDYFMKI LMECSYRFTTMAEQEIVCDIKE KLCNIALDFEHKMATGASSSSL EKS YEVPDGGQVITIGNEWF/*VP EALFQPS/MGMESCGIQETTFNS IMKCDVDICKELYAKMVLSSGT TMYLGIADRMQKEITALGRPST LRFRFIAPP/ERRKYSV\WIGG\SI LASLSTFQQMWISKQEYDES GPLHPSTANCF

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8610	38978	A	8667	3	171	CPLCRGNHWK VHCPSGR/MVP* VRSPQDDPTTGQRVPGASASS CHHPH*APGTFNH
8611	38979	A	8668	1	325	SPSRTC YQCGLQGHF*KDC/TSE KPPPRPCLLCQGNHWK VHCPR/ VTKVLWVRSPQDDPATGLRV PDD*EHTIRRAYALGKSAVTSK PPPPYPARSRLNVRRLCSLATN
8612	38980	A	8669	3	377	
8613	38981	A	8670	1	423	
8614	38982	A	8671	1	1659	
8615	38983	A	8672	1	1449	MVNDTDRPKVQVEYKGETKIF YPEEVSSMVLTKMKEIAEAYLG KTVTNVVTVPAYFNNSQHQQA TKDAGTIAGLNVLRRIINEPSAAD IAYGLDKKVGAEARNVFIFDLRG GTFDVSILIIQDGIFEVKS GDTHL GEEDFDNRIVSHFIAEFKHKYK KDITIRDVKLDKSQIHDI VSIGG YTHIPKIQKLLQDIFNRKELNKS INLDEAVAYGA AVQAAILSGD KSENVQDLLLLDVNPLSFGIEL AGGVMTV/LPVLIKHSTTIPTKQ TETF*QPIYSDNQPG\YE GECAM TKDDNLLDKFELTGIPSAPHGV PQIEVTFDIDANGILNVSAVDKS VGKENTITTTNDK HRLSKEDM NIWSAEKYKAEDKRQRDKVSS KNSLESYAFHMKATVKDEKLQ GKINGEDKQKILDKFNEVIKWL DKNQA AKKEEFHQQTELEKV CNLIISKRYQSAGGMPGGMPGG FPGGGAPPSSGASSRPITEEVD

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8616	38984	A	8673	18	1388	TRLQLLGFLWLPSLLEPGLHPS NHGPRGPAVGIDLGTTYSCVGV FQHGK\VEIHAN\DQGNRTTPSY VAFTDTERLIGDAAKNQVAMN PTNTSF*LPNGLIGR\RFD\DAVV \QSDMKHW\PFMVVNDAGRPK APS*NTKGETKSL\YPEEGVFLW V*PKMK\EICRSLTLGKTVTNA\ VVTVP\YFNDS\QRQATKDAG TIAGLNVLRI\INE\PTAAAIA\YG LDKKGLEQKRNRAHLLTWGG GTF\DV\ILTIED\GIFEIVKSTAG DTHLG\GEEDFDNRMVNHFAE FKRKHKKDISENKRAVRLRTA CERAKRTLSSSTQASIEIDSLYE GIDFYTSITRARFEELNADLFRG TLDPVEKALRDAKLDKSQIHDI VLVGGSTRIPKIQKLLQDFFNG KELNKSINPDEAVAYGA AVQA AILSGDKSENVQDLLLDVTPPL SLGIETAGGVMTVLIKRNTTI
8617	38985	A	8674	2	1559	RYLNWIGTPTKGMSLKAFFVQQ PHKSYWLKTLPLDNMEALQIR K*VPNILGTCAVSWLKGPCSDV AVKKFFIFSLGNYWEGN*LI*EH GYK VW*HSNSYLEPISPAQTPK KRTTSYFSTLLCLRLRSCLSFLK RIECYEVNYQPLDEELDR*EPAP QSQGLDLSPSFDIL*DHIQSRTV YYLMNIHVTPRSIYLCRHGESE LNIRGRIGGDSGLSVRGKQVG WATHTQMGWLGCPRWAAGFP ILPSRPYPNAGVTLAAPVPTHDS VLPALPTRAGGQDETEPGLKAG PTGLPSAPPLEMGGGAPGKALS WMATPWCLPFCYVEVALTCAA PTVYQAVVWVLP\HYLKCSPQT AGQMRQCSLDMRPERGRDVSE GTRDHVRELREFNLWLIPPCQG LLPTSHMKRTIQTAELGVPE QWKALNEIDAVRCMG*ISCVW G*LESGIPLRDQDKYRYRYPK GEVRFAGWPNA*DYSVSSLQL NVLLICHQASMRCLLAYFLIKS SGTTLISALGMFDGI
8618	38986	C	8675	16	206	
8619	38987	A	8676	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIIKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
8620	38988	B	8677	877	2126	

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8621	38989	A	8678	1	1731	
8622	38990	A	8679	2	1675	
8623	38991	A	8680	1	2142	MHILIDAEKAFDKIQQPFMLKTL NKLGDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPIKLPMFTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
8624	38992	A	8681	1	1242	

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8625	38993	A	8682	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWDYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSSRRTTPRHILNA HKRK*ERYKIDTLTSQLKELEK QEQTYSKASRRREITKIRAELEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITDPTEIQTIREYYKHL TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPIGTSEIEAIINSL PTKKSTGPDRTAEFYQRYKEE LVPFLLKLFQSIEKEGILLNSFY ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDKNHTIISIDAEKA FDKIQPFMLKTLNKLIGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
8626	38994	A	8683	1	5127	
8627	38995	B	8684	1	1461	
8628	38996	A	8685	2	1879	
8629	38997	A	8686	1	1299	MKLPEEGSGSIICCSAIFAVLQL PLVIHRQTGYGEDLQQPTDLQ LRDLTDHSSSPAMEQSWMEND FDELNRSRLQKANKLENLEETD KFLDTYTLPRLNQEETESLNRPI TGSEIEAIINNVPTKKSPGPDGV TAKFYQRYKEELRTVNKNHMII SIDAEKAFDNIQOPFMLKTLNK LGIDATYLKIIRAIDDKPTANIIL NGQKLEAFPLKTGTRQGCPSP LLFNIVLEVLAIRAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLINNFASKVSGYKI NVQKSQEFYNNNRQTENQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYNPLLNEIKKDTNK WKNIPCSWIGRINIMKMAILLK VIYRFNAIPIKLLMIFFTLEKVT TLKCI*NQKRAHIAKPILSQKNK
8630	38998	B	8687	1	2187	

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8631	38999	A	8688	1	1698	MMGDFNTPLSTLDRSMRQKVN KDIQELNSALHHMDLIDIYRTL HPKSTEYTFFSAPQRTYSKIDHI VGSKALLSKCKRTEIITNCLSDH SAIKLELRIKKLTQNHSTWKLN NWLLNDYWVHNEMKAEIKMF FETNEIKDTTYQNLWDTFKATL NQEEVESLNRPTGSEIQAMINS LGTKK/SPGPDGFTAKFY/P/E*H DCISRKPHRLSPKSP*ADKQLQ QSLRIQNQCCKITSILIHQ*QTNR EPNHE*TPIHNCIKDNKIPRSPTY KGCEGPLQGELOTTAQRNKRK HKQMEEHPLMDRKNQYHEN GHTAQGNL*IQCHPHQATNDFL HRIGKKYSKVHMEPKKSLHCQ VNPKEQSWRHHTT*LQTLQ GYSNQNSMVLVPKQRYRPMEH NRALRNNATYLPKSDL*ET*QK QEMGKGFPI*QMVLGKLASHM *KAETGSLPYTYKN*FKMD*R LKC*T*NHKHPRRKPRQYHSGH RHGQGLHV*NTKSNGNKSQN* QMGSH*TKELLHSCRNYHQSE QATYRMGENFCNLLI*QRANIQ NLQRTQTNLQ/RKKQPHQQVG
8632	39000	A	8689	1	5073	
8633	39001	A	8690	128	1407	EKKASDDQTPSYRRKFKPKA KKLNTLKKI*TN/RITRITNREKC LKELMELKAKARELREECRSLR SQCDQLEERVSVMEEIQTIRE YYKHLIYENKLQNLNLEEMDKFLD TYTLRRLNQEEVESLNRPTGSE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELIPFLKLFQSIEKEGI LPNSFYEASIIIPKQGRDTTKK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSRNVIHHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGIDETLYKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFELISNFSKVSGY KINVQISQAFLYTNYRQSAKS
8634	39002	B	8691	1	1443	
8635	39003	A	8692	1	1878	
8636	39004	A	8693	1	1479	

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8637	39005	A	8694	1	2091	MVFLEKISVGISRLSKQHPPFIR VALPLDADPTVSRIGSFQWVLG LADFRNEAVDPRDVQMCPEFIP SGGFVVFLTSGVKPQTFTVSITA LKGEPTQMRRNQKTNSGNMTK LGYLTPQKNHTSSPAMSPNQE IPDSPEKEFRRTTEEASLTEGGTI NPIISWAVGNGSSKNLYHILGK GRKIFSSSGIKQKSIASGERQNF QRNDQTAFAVHENPLFCSHR CWYPGKQEKCLKELMELKAK ARELREECRLSRSCDQLEERV SVMEDEMNMKREGKFKREKRI KRNEQSLQEIWVYVCRPTLHLI DVPETLNAHKRKQERSKTDLT SQLKELEKQEQTTHSKASRRQE TKIRAELEIETEKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAINKDKGDITSDPTEIQT TIREYYKHLIYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGSEIVAIINSPLTKKSPGPDGST AEFYQRYKEELLISNFSKVSGY KINVQKSQAFLYTNNRQMESQI MSELPFTITSKRIKYLGIQLTRDI KDLFKENYKPLLNEIKEDRNKC KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLRMTFFTELEKTTL KFIWNQKRARITKSVLSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTEPSEITP
8638	39006	A	8695	1	3514	MELKTKARELREECRLSRSCD QLEERVSAEMEDEMNMKREG KFREKRIKRNEQSLQEIWVYV RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLAQANIQEI QRTQPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLNDYW
8639	39007	A	8696	1	2091	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8640	39008	A	8697	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENFDDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNMEN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQQEELTILKIYAPNTGAP RFTKQVLSDLQRDL
8641	39009	A	8698	1	1584	MSISGTVRMSAKSKGNPSSSCP AEGPPAASKTKVKEQIKIIVEDL ELVLGDLKDVAKELKEQHW HPISGDTATSICTVLESEKSKIK VTAFDVWLHLWGKGTDKQKD SSNFCRLKCPCLTALKRAVVLP ARSWRCENGQTASSGSLTPDP RAANREAPPSRGRLTPHTASDG ENGTKLENTLQDIIQENFPNLAR QANIQIQEIQRTPQRYSSRKATP RHIIVRLTKVEMKEKMLRAARE KEIQTAIREYYKHLIYANKLENL EEMDKFLDAYTLPRQNQEEVE SLNRPITGPEIVAIINSLPTKKSP GPDGFTAIFYQRYKEERHINRT KDNHMIISIDAFAFNKIQQPF MLKTLNKLIGDGYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QECPLSPLLFNIVLEVLRARIRQ EKEIKGIQLGKEEVKLSLFVDY MIVHLENPIISAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGIQ LTRDVKD\LFEEEND

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8642	39010	A	8699	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKKL TQNHSTTWKLNLLNDYWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKAVCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAIGN DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDITYTLPR LNQEEDESLNRPITGSEIEAIINS LPAKKSPGPDRTAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVEVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLGQQLTRDVKDLFKENYKPLL NEIKDDTNKWKNI PCSWVGRIN IVKMGI LPKVYRFNAIPIKLPM TFFTELEK\TTLKFIWNQKRARI AMTILS*KNKAGGITLP
8643	39011	A	8700	3	1033	
8644	39012	A	8701	1	1068	ANKLENLEETDKFLDITYTLPR LNQEEDESLNRPITGSEIEAIINN PTKKSPGPDGVTAKFYQRYKEE LRTVNKNHMIISIDA EKA FDN IQ QPFMLKTLNKL GIDATY LKIIRA IDDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTENQIMSELPFTIASKRIK YLGQQLTRDVKDLFKENYNPLL NEIKKDTNKWKNI PCSWIGRINI MKMAILLKVIYRFNAIPIKLLMI FFTELEK\TTLKCI*NQKRAHIA KPILSQKNKAGSITLR
8645	39013	B	8702	69	1055	
8646	39014	B	8703	1	2301	
8647	39015	A	8704	1	3189	

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8648	39016	A	8705	92	1139	ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPIC TSPSSKTK EIQT TIREYYQ HLYTNKLENLEEMDKFFDTYT LPRLNQEEVESLNR PITGSEIEAI INNLP T/KKSPGPDGFTAKFYQS VGSSGQGNQAGEGNKGHSIRK RGSQIVPVCR*HDCISRKPHRLS PKSP*ADSQLQQSLRIQNQCAKI TSILIHQ*QTNREP NHE* TPIHNG FKQNKIPRNPA YKGCERPLQGE L*TTAQ* NKRGYKQMEEH SML MGRKNQYHENGHTAQQNL*IQ CHPHQATKNFLHRIGKNYFKV HMEPKKGPHCQVNP KPKEQSW RHHTT*LQ TILQGYSNQNSI
8649	39017	A	8706	1	2199	
8650	39018	A	8707	1	2238	
8651	39019	A	8708	3	1889	RSMRQKV N KDTQELNSALHQA DLIDIYRTLHPKSTEY TFFSAPH HTYTKIDHILGSKALLRKCKRT EIITNYLS D HSAIKLELRIKNLTQ NRSTTWKLN LLLNDY WVHN KMKAEIKMFFETNENKDTTYQ NLWDAFKA/EIQT TIKEYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVESLNR PITGA EIVAIIN SLPTKKSPGPDGFTA EFYQRYK EELVPFL LKLFQ SIEKQGILPNSF YEASTILIPKGRDTTEKENFRPI SLMNIDAKILNKILAKRIQQHIK KLIHHDQVGFIPGMQGWFNH K SINVIQHINRAKDKNHMIISIDA EKA FDKIQQRFMLKTLNKL GID GTYFKIIRAIYDKPTANIILNGQ KLEA IPLKAGTRQGCPLSPLL FN IVLEV LARVIRQEKEIKGIQLGK EEVKLSL FADDMIVYLENPIVT AQNLLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSELP FTIASKRIKYLGIQLTRDV KDLF KENYKPLLKEIKEDTNKWK NIP CSWVGRINIMKMAILPKVIYRF NAIPIKLPMTFFTELEKTK\FIWN QKSAHITKGILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN

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8652	39020	A	8709	1	1779	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSNIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVNNEMKAEIKMFF ETNENKDTTDQNLWDTFKAVC RGKFMALNAHKRKQERSKMG TLTSQLKELEKQEOTHKASRR QEITKIRAELEIET/QKTLQKIN ESR\TEIQTIREYHKHLYANKL ENLEEMDKFLDTYILPRLNQEE VESLNRPVGTGSEIEAIINSLPTKK SPGPYGFATAEFYQRYKEELHIN RTKDKNHMIISIDAEKAFDKIQ QPFMLKTLNKLIGDGYLKILR AIYDKPTANIILNGQKLEAFHLK TGTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKWSL FADDMIVYLENPIVSTQNLFKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGIGLTRDVKDLFKENYKPLL NEIKEDTNKWKNIPCSRAGRINI VKMAILPKVIYRFSAPIKLPM FFTELEKTK\FIWNQKRAHIAKS ILSQKHKAGGITLP

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8653	39021	A	8710	1	2093	MEITTNCLSEHSAITLQLRIKKL TQNCTTTWKLNYLLLNDYWV NNEMKEEIKMFFETNENKDDT YQNLWDVFKAVCRGKFIALSA HKRKQERSKTDLTSQLKELEK QEQTHSKASRRQEITKIRAELE IETQKTLQEINDSRSSFSEKLNKI DRPLARLIKKKREKTQIDAIGN DKGEINTNPTEIQTIREYYKYL YANKVENLEEMDTFLDTYTL RLNQEEVESLNRPTGSEIEAII SLPTKESPGPDGFTAIFY/HEGN QERERNKGYSIRKRGSHIVPVC R*HDCLFRKPHHLSSKSHEAVK QLQQSLRIQNQWAKITSMPIVH Q*QTNREPHE*TPHNCYKEN KIPRNPTYEGCEGPLQGEQTT AQQNKRQKEMEKHSMMLMDR KNHYHENGHTAHGNL*IQCHP HQATNDFLHRIGKNYVNFHME PKKSLHCQENPKQREQSWRHH AT*LQTLQGYSNQNSMVLVPK QIHRTMEQNRGLRNNTTHLQPS DL*QI*QKQEMGKQFPI**MVL GKLASYM*KAETGSLPYTLK N*FKMD*RLKC*T*NHKNPRRK PRQYHSGHRHGQGLHD*NTRS NGNKNQNRQMGSN*TKELLHG KRNYHQSAQTTYRMGENFCNL PI*QRANIQNLQRT*TNLQEKKNK QPHQKVGKGHEQTLLKRRHLC SQQTHEKMLIITGHQRNANQN

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8654	39022	A	8711	3	1805	PLSTLDRSSRQKVNKDIQDVISA LHEAGLIDIYRTLHPKSTEYTF SAPHHTYYKIDHIVGSKALLSK CKRTEITTNCLSDRAIKLELRI KKLTQNYTTTWKLNLLLSY WVNNEMKAEIKMFFETNENKD TMYQNLWDTFKA VCRGKFI NAYKRKQERSKIHTLSQLKEP EKQEQT HSKASRRQEITKIRAE KEIDTQKTLQKISVSRWFSE NKIDRLIARLMKKKREKNQIDA IKNDKGDITIDPTMQTTIREYY KNLYANKLENLEEMDKFLDTY ILPRLNQEEVELPNRPITGSE AIINSLP/TKKSPGPDEFTAKFYQ RYKEELQG\IRQEKEREDTQLG KEEVKLLFAEDMIVYLENPIV SAQNLLKLNNFSKVSGYKINV QKSQAFLHTNNRQTESQIMSEC PLTIASKRIKYLGIQLTRDVKDL FKENYKPLLNIKEDTNKWKN IPRSWLGRNNIVKMTILPKVIYR F/NTLNFIWNQERARIAKTILSK KNKAGGITLPDFKLYYKATVT KTARYWKQNIKKGSVWPISLK SEKRGHRTPLWKLCHNDVQG ELLKTIQFLFGSPLGHSSLDPSA
8655	39023	B	8712	1	1743	
8656	39024	B	8713	1	1260	

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8657	39025	A	8714	1	1842	VPPTTCGNYGSTIQDEIWMGTQ NQTISVSEEMMFQAEIISAQK MWNQHHITPSKVDHIVGSKAL FSKCKRTEIITNYLSDHSAIKLK LRIKKLTQNRSTTWKLNLLLLN DYWVHNEMKAEIKIFFETNEN KDTTCQNLWDTFKAMCRGKFI TLNAHKRKQQRCKIDTLTSQK ELEKQEQTHSKASRRQEITKIRA ELKEIEAQKTLQKINESRSWIFE KINKTDRLLARIKKKREMNQI DAIKNDKGDITTNPTIEIQTIRE YCKHLYANKLENLEEMDKFLN TYTLPRLNQEEIESLNRPIGSEI EAIINSLPTKKSPGPDGFTAIFY QRYKEEMIEKKAFFDKSQQPFM LKTNLKLGIDGTFLKIRRAIYDK PTANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLAIREIRQ KEIKHIQLGKEEVKFSLFADDVI AYLENPIVSAQNLLKLISNFSKV SGYKINVQKLQAFLYTNNRQTE SQIMSEFPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLNKIKEDT NKWKNIPCSWIGRINIMKMAIL HKVIDRFSAPFKL/PKD/FFTEL EKTTLKFIWNQKRPRJSKTILSK KNKAGGITLR

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8658	39026	A	8715	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRLR SRCDQLEERVVSAMEDEMNEK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLRINKI DRPLARLIKKKREKNQIDTIKN DKGDITNPTEIQTTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPIGAEIVAINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPDELQ TTAQGNKRGYKQTEHSMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYNSQNSMVLV PKQGYRSMEQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
8659	39027	A	8716	1	1578	MGDFNTTLSTLERSARQKVNK DIQELNSGLHQADLIDYKTVKP KSTEYTFFSGPHRTYSKIDHIVG SKALLSKRKRTEITNCLSDHSA IKLELRIKKLTQNRSTTWKLNN LFLNDYWVHNKMKAEIKMFFE TNENKDTTYQTLWDTFKAOCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKVSRQEI TKIRAELEKETQKTLQINESKI QTTIREYYKHL YANKLENLEE MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINSLPTKKSPGPD GFTAEFYQRYKEEARPISLMNID/ AKILNKILANGIQHDIKKLIHDD QVGFIPGMQGWFNIRKSINVIQ HVNRTDRKNHMIISIDAEKAFD KIQQPFMLKTLNKLIGDGYLK IIRAMYDKPTANIILNGQRLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIGQEKEIKGIQLGKEEVK LSLSADDMIVYLEKPIISAQNL KLISNFSKVS/GYKINVQKSQAF LYTNNRQTESQIM
8660	39028	B	8717	1	2982	

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8661	39029	A	8718	617	1155	SIAYQPKSPGPDGFTAIFYQRH KEELLISNFSK/VSGYKIDVQKS QAFLYTNNRQTESQILSEFPFTI ASKRVGYLGIQLTRDVKDLFKE NCKPLLNEIKKDTKKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKYTTLRFIWN QKRDHIAKSILSQKNKAGSITLP
8662	39030	A	8719	1	1827	MGKKQSRKTGNFKKQRHLSFS KGIAVLHQQWNKAGQRLTFDE LREGFRPSNYSKLQKEIQTKGK EVENFEKNSDECITRITNTKKCL KELMELKAKARELREECRLRS RCDQLEERVSGMEDEANEMKR EGKFGEKRIKRNEQSLQEIWDY VKRPNLRLIGVPESDGENGTKL KNTLQDIIQENFPNLARQANIQI QEIQRTPQRYSSRRATPRHIIVR FTKVEGKNIKGSQRERAIEQTTI REYYKHLYSNKLENLEEMDKF LDTYTLPSLNQEEVESLNRTITG SEIVAIINSLPTKKSPGPDGFTAE FYQRYKEEVVPFLKLQFSIEKE VILPNSFYEARIIIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDQVGFIPIGMAI RQEKERKGIQLGKEEVKLSLFA DDVIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQRESQIMSELPFTIASKRIKWL GIQLTRDVKDLIKENYKPLLNEI KEDINKWKNIPCSWVGRISIVK MAILPKVIYRFSAIPIKLPMFTFF ELEKTTFK\FLW\NQKRARIKAS ILSQKNK/AGGITLPDFKLYYKA

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8663	39031	A	8720	1	1551	MEKFLDITYTLPRNLNQEELSLN RPITGSEIEAIINSLPTKKSPGPD GFRAKFYQRYNEELVPFLLIKIF QSIEKEGILPNSFYEASIIIPKPG RDTTKKDNFRPISLMNIAVKILN KILANQIQKHIKKFIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKSHMIISIDEEKAFDKIHLPF MLKTL SKLGIDGMYLKIIIRAIY DKPTANIILNGQKLEAFPLKTGT RQRCPLSPLLCNIVLEVLARAIR QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKELFKENYKPLLNK IKEDTNKWKNI PSSWMGRNIM KMAILPK/VTWMKLEIIVLSKLP QEQT KHRMFSLTGVFIEGRAL QNKSETSQRHPGATHSLPEYTI PGSSPSNFYWFTLGLKEEVTSG WKREKKKRKREGGKEGRKEG RKEGRKEGKKEGRKKGRKEVP
8664	39032	A	8721	1	1983	
8665	39033	A	8722	1	2436	
8666	39034	A	8723	1	3139	
8667	39035	B	8724	1	3558	
8668	39036	B	8725	1	2133	
8669	39037	A	8726	1	3051	MGDFNTALSTLDRSMRQKVNK DIQELNSALHQADLTDIYGT LH PKSTECTFFSAPHHTYSKIVHIV GSKALLSKWKRREIITNCLSDH SAIKLELRIKKLNQNCSTTWKL NNLLLNNYWTNKKKREKNQI DA/IKNDKGDITTNPTIEIQTIRE YYKHLYANKLENLEEMDKFLD TYTLPRNLNQEELSLNRPITGSE IEAIINSLPTKKSPGPDGFTAIFY QRMNYSIFKSTWKIKNAYSLA HSREL RDGGQ
8670	39038	A	8727	1	2706	
8671	39039	A	8728	1	2573	
8672	39040	B	8729	70	2029	
8673	39041	A	8730	81	385	
8674	39042	A	8731	301	515	SSWQAPAPVLGSSWASKK*MK KKYAAQQIEKQKSP*CKSIKCS LRSASYAQLLSFSLSSCLCFSTC HSTLAWYCL*SSWQAPAPVLG SSWASKKRSLLWKEPSRSLPSF SITARS*ACCLCSSTEPQLLKA QYLLSHSRTRSFRLQ

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8675	39043	A	8732	2	4207	DTHRLKIKGWRKIYQANGKQK KAGVAILVSDKTEFKPTKIKRD KEGHYIMVKGSIQQEELTILNIY APNTGAPRFTKQVLRDLQRDL DSNTIITGDFNTPLSTLDRSMRQ KVNKDIQELNSALHQADLIDIY RTLHPKSTENTFFSAPHHTYSKI DHIVGSKALLSKCKRKEITNCL SDHSAIKLELRIKKLPQNCSTIW KLNNLLLNDYWVHNEMKAEIK MLFETNENKDTTYQNLWDTLK AVCRGKFIALNA
8676	39044	A	8733	1	2770	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLRQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLIYANKL

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8677	39045	A	8734	3	2169	FKPTKIKREKEGHYIMVKGSIQ QEELTILKIYAPNTGAPRFTKQV LSDLQRDLDSHTLIMGDFNTPL STLDTSTRQKVKKDTQELNSAL HQADLIDIYRALHPKSTEYTFFS APHHTYSKIDHIVGSKALLSKC KRTEIITNYLSDHSAIKLELRIKN LTQNHSTTWKLNLLNDYWV HNEVKAEIKVFFETKENKDDTY QNLWDAFKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITNIRAELEKI ETQKTLQKINESRTEIQTIREY YKHLIYANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPIGTSEI VAIINSLPTKKIPGPDGFTAIFY QRYKEELVPFLKLFQSIEKEGI LPNSFYEASILIPKGRDTTKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIPHDQVGFIPGMQGW FNIRKSINVIQHINRAKDKNHMI ISIDAEKAFDKIQPFMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGQKLEAFPLKTGTRQGCPSP LLFNIVLEVLAIRQEKEIKGI QLGKEEVKLSLFADDMIIYLEN PIVSAQNLLKLISNFSKVSQYKI NVQK\SAFLYTNNRQTENQIM SELPFPIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIKVEDTNK WKNIPCSWVGRINIVKMAILPK LIGNCSKISGYKINVQKSQAFLY
8678	39046	A	8735	1	5166	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSAEMDEMNMKRE GKFREKRIKRNEQSLQEIWYDV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLAQANVQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL

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8679	39047	A	8736	1	4553	MGRKNRKLDNRQHSYTSPQSRSHEDPAAVLQALSSSGVVIYQSLVAVQSPLAAPGCDGSRCEVRGLTVGSRYGSRWLAGCRDNEMVNACQSGWCYQNLTVLRGWKVLLEMPHHTYISKIDHILGSKALLSKCKRTEIITNYLSDHSAMKRELRIKNLTQNRSTTWKLNLLLNDYWVHNEMKAEIKMFFETNE NKDTTYQNLWDIFKAVCRGKFI ALNAHKRKQERSKTDLTLSQL KELEKQEQTTHSKASRRQEI
8680	39048	A	8737	1	2673	MVKGSIQQEELTILNIYAPNTGAPRFIKQVLSDLQRDLDSTLI MGDFNTPLSTLDRSTRQKVNDTQELNSALHQADLIDINRTLHPKSTEYTFFSAPHHTYISKIDHIVGSKALLSKCKRTEIITNYLSDHSAIKLELRIKNLTQSRSTPWKLNNLLNDYWVHNEMKAEIKMFFETNKNKDTTYQNLWDAFKAVCRGKFIALNAYKRKQERSKIDTLTSQLKELEKQEQTTHSKASRRQEITKIRAELEIETQKTLQKINESRSWFFERINKIDRPLARLIKKREKNQIDTIKNDKGDITDPTEIQTTIREYYKHLANKLENLEEMDTFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDGFTAIFY/PESYL*QTHSQYHTEWAKTGSIPFENWHKTGMPSLTAPIQHSVGSSGQGNQAGEGNKGY SIKRGSQIVPVC*HDCLSRKP HRLSPKSP*ADKQLQQLRIQN QCTKITSILIHQKQTNREPTHE* TPIHNCFKENKIPRNPTYKGCEGPLQGELQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHTSQGNLQIQCHPHQATNDLHHRIGKNYFKVHMEPKKSPHRQVNPKP KEQSWRHHTT*LQTLQGYSNQNS\MVLVVPKQRYRSMEQNRAL RNNAAYLHYSD\L*QT*EKQAWGKGIP\IYKM\AL\GLAS\PM*
8681	39049	B	8738	1	2792	
8682	39050	B	8739	156	391	
8683	39051	B	8740	1	2824	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8684	39052	A	8741	3	4167	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDIYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNNPLLND YWVHKEMKAEIKMFFETNENK DTTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDTLTSQLKE LEKQEQTTHSKATRRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
8685	39053	A	8742	1	1107	MKVEIKTFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQIQTIGEYYKHLYT NKLENLEEMDKFLDTYTLPRLN QEEGESLKRPMAGSEIEAIINSL PTKNSPGPDRFTAIFYQRYKEE L/PDKQLQQSLRIQNQWEKITSI PIHQ*QTNREPHE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQRNKRGHKQMEEHSMMLM DRKNQYCENGHTAQEETAFACT HSRRESSRLGLLVANFRACHQE RFRRERSVPAGVHAEAHPCWE NRGREERHWEQHPGPETVLLQ AGGHVCDQGLHHGQPQVGQV PRGSRGHSGHFQLPSVQDRSWL
8686	39054	A	8743	1971	5654	RSPTAGRNTNYPSTRDYKHL A\NKLEN\LEEMDKFLDTYTLPK T/ITQEEVESLNRPIG\SEIVAVI NSLPTKKSPGPDGFTAKFYQRY KEELHINRTKDKNHMIIISDAEK AFDKIQPPF\MLKTL\NELGID GT/YFFKIIIRAIYDKPT\ANIRLE WGQKLEAFPFEKLAQEQQGMPL LLNPLPQSNIVVGKFLA\RAI\RQ EKEIKGIQVEKQEVKLSLFADD MIICLENPIVSAQN\ALKLISNVS

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8687	39055	A	8744	1	4901	MTGSNSHITILTLNINGLNSAIK RHRRASWIKSQDPSVCCIQETH LTCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFLAPH HTYSKIDHIVGSKALLSKCKRT EIITNYLSDHSAIKLELRIKNLTQ SRSTTWKLNNL
8688	39056	A	8745	2	1887	SASVVPASGLRPSSTSLTSTRQP RFLGLLRSHPALLVAVPGDWD DLAVCCIVAPSHVCRMVFMVD RTLGISLPGLLKREEDACWVEA NINGRVLAQCNIDELKKEMNM NFGDWHLFRSTVLEMNAESH VVPEDPRFLSESSSGPAPHGEPA RRASHNELPHTELSSQTPYTLN FSFEELNTLGLDEGAPRHSNLS WQSQTRRTPSLSSLNSQDSSIEI SKLTDKVQAEYRDAYREYIAQ MSQLEGGPGSTTISGRSSPHSTY YMGQSSSGGSIHSNLEQEKGKD SEPKPDDGRKSFLMKRGDVIDY SSSGVSTNDASPLDPITEEDEKS DQSGSKLLPGKKSSERSS\LFQA SLK\LKGRGLRLSKLP\SEEDC GAEESDNTP\LLK\DDKDRKPEG KVERVPKSPEHSVEPIRTFIKAK EYLS\DALLDNKGSSDSWSVD PRES\SPNHVSAQCKCADDLPD LKRHNLI\LEDDSHSGKRG\IPH SLSGLQDPHARMSCSEDKKSPS RIASLD*PSSP\EENWP\ACQKA YNL\NRTPTSTVTLNNSAPANR ANQNFDEMEGIRETSQVILRPSS SPNPTTIQENLKSMTHKRSQR SSYTRLSKESPELHAA\SSSESTG

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8689	39057	A	8746	1	385	EGNEAQTCSFWNTRRQLLASS DPSLSVSQRMDPSWRRSSHSWP QPMPSGRAPVRPHLAKLEED VWPCPQFHQTKAASGPPFVTFQ PANCFPSVISFHLHCHTWSEQD RAYHPVYQMR**GSDVQLLEY EASAAGLIRSFSEFPEDGPELE EILTQLATADARFWKGPSEAPS GQ/ALRK/SVWPCPQFHQTKAA SGPPFVTFQPANCFPSVISFICT AIRGVSKTGLTILSTR*GNGSSE KSLV
8690	39058	A	8747	2	2015	QDFLDSQNLSAYNTRLFKEVD GEGKPYEYVRLASVLGSEPSLD SEVTSKLKSYEFRGSPF/QVTRG DYAPILQKVVEQLEKAKAYAA N\SHQGQML\AQYIESFTQGSIE AHKRGSRFWIQDKGPIVESYIG FIESYRDPFGSRGEFEGFVAVV NKAMSAKFERLVASAEQLLKE LPWPPTFEKDKFLTPDFTSLDV LTFAGSGIPAGINIPNYDDLARQT EGFK\NVFAGGIVLGCGLTPRK REK\LTLEEDDKDLYLWKGPS FDVQVGLH/ESLLGHGSGKLFV QDEKGAFN\AQETRDPPQKRG EQIQSWNRTGETWDSKFSTIAS SYE\ECRAESVGLYLCLHPQVL EIFGFEGADAEDVIYVNWLM VRAGLLALEFYTPAFNWRQA HMQARFVILRVLLEAGEGLVTI TPTTGSDGRPDARVRLDRSKIR SVGKPALERFLRRLQVLKSTG\ DVTEGRALYEGY\STVTDAPPE\ CFLTLLR\DTVLLRKESRKL SVQP NTHLEGNE/VSDVQLLEYEASR AGLIRSFSEFPEDGPELEEIFTQ \LATADARFWKGPQ*GPHSGPS LRKIVVALPPKFHQTKAA\SGPS HSVCVFRGWGGGGAGAWTLV L\PQLEGW*HNPLPICQHVSSLP NCFPSVIL/SFICTAIRGVSKTGL TILSTKMRNGSSEKSLV
8691	39059	A	8748	1	519	
8692	39060	A	8749	786	864	
8693	39061	A	8750	1	468	

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8694	39062	A	8751	128	605	MTWGTVPLFHIFQMRCCHWSC QGIMRGWGLCSQTLNCLLSK C*TCSRGGGQIWSRKFRVLRVE *G*GNFKTPELQQPGVPPGLPP PGSCFKCRKSGHWAKECPQPGI PPKPCPICAGPHWKLDPCPTLA ATPRSPGTLAQGSLTDSFPDIRG LAVED
8695	39063	B	8752	1	615	
8696	39064	A	8753	1533	1767	PSPTCPAIYS*KGGWSQRHSQG ACYTCRKSGHWAKECPQPGIPP KPRPICVGPB*KSDCSTHLAAN PRAPGTLAQGSL
8697	39065	C	8754	84	329	
8698	39066	A	8755	911	1497	SQRKARDQRRKRNRKASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGKVWLDP/NETNEIPN ANFRQQIRKLIKDGLILHRKPV TVHSRAQGKSTLARRKGRHL GIESKKIDRHMYHSLYLKLGKN VFKHKRILTEHSHKLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIKTLSQEEKAK
8699	39067	A	8756	34	280	EVIHAAIGEEKGSY/NA**PWVE EQLTRQPLIIHHQPASLHSVY/RC RYHSLYLKVKGNVFNKRILM EHIHKLKADKARKKLLA
8700	39068	A	8757	1	692	AFLQELCLKSSTGELFPFAAV AAALSMLRLQKRLASSVLCCG KKNIWLDPNETNEITNANSRQQ IRKLIKDGLIIRKPVTVHSRLRC RKNT\LAR*KGRHMGIGRKV PANA\RMP\EKVT\WMRENEGF CRRLASEDTRESKKIDRPHVVT ALYL\EVKGNVFNKRIL\MEHI HKLKA\DKARKKL\AD\QAEA RRSKTKEATKRREERLP/ARPRK REII*TLSKEEETKK
8701	39069	A	8758	46	131	
8702	39070	A	8759	5	447	PATELPGLPTRPGMLCIWRGAP DWPEGPPSSGELSSIQPTQGLHN CFQPDGARPAAPGPVPGQLGAL PWSCRPPAEPTLFMESLVQWPP GDGIRQ*CEDAAELREPGVQRH QGSPG*VRTLPPLRGPSQVPA/G SSSSASPRIPGSRG

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8703	39071	A	8760	1	201	MPNIYTMEEYAAVKKDEFMSF VGTWMKLETHLSKLSQGGKTK HRMFSLIGTRMKLETHLSKLLQ GQKNQTPYILTHRISFEDVRNY MPLAVIHSDESPILPLHEQQDAS ENGWIKDTERDADLEIYIVSGIG SFRWVLGLADFKSEAADPCGM KLQTFASVTALKGGASRVVH SSWWVCVLTDFRSEAAVLSVT ALEGGASRVAHSSRFVVSLSG VKLQFTTVNATAHKGSADPKS EQHQDLLQRAKKHTFHSMKGE PRRVVAAAGWGGAIKADSNNLI LLFQTIEKYCPWFPDKGSVDLL DWDRVGTTLCLMRDGVLLPI SVWTDWALIRVALLPFQSGDTL QLPQVNADVEPLPLPRCIGGITG PEGGDPGPFHVLGVVYFLT CRSTWEQRKSPVALR**KLGP GSPSPGVMPPMHRGKSGSTS ALTCGS
8704	39072	C	8761	42	179	
8705	39073	A	8762	11	1713	PKTLKMGGGTAGLVGMGFSTT GARTPSAPGRPHPCRGA/GSPG KAGLFLQRPRLGTGL*GSAPRG PG*MGCP\GTGRGSNSRH*RGPP RRPQAS*AAPFQPGPLETWTGP *SQVPGAPSPCNFSYPHREVPP WGPVPPPAPHGSCGWALALPR RKRAAVFSSWAPGQAGQLLDA ASVGAAP*QDIPPCRGSAPSPC SPHPPPGLESGPK\PGAASWAGP QTPFSGRAQQLCQEGPAGAGN TSGRSA*AASAGTCDGPRSGGR VRTYPGLP*CRWTPGSRSSAAS SHHCRMPSPGGHCTRLSMKRV GSAGGRQLQGRAPS*PARGT*Q RPRGGQSGLAAPLESRH*DGE *AFWRAETVRSSVQRRREFATG LSGPSS*PRWSTCSVP/ASSPGG GDVAGPQEGPRSFHCLPSCL*V RPSHPEGDAA*GALHK*RMH EEGRPGPCGGWGLV/GSWEPV QGCRNLARWGRAWNCLQFPE *PPGGPGLADSGFIQTARLNFQ GWASVSFSIKRPGRAILRPCPTS EFLLPESFVSGNCSSTERAMWP FWAPPRSAPGAENFPCASVPCK

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8706	39074	A	8763	1	409	LTHLTAQNVPNLFARNERVICL FDTEFGPMAQILVGATIVGSIET VWAGTITPPREGIIKRWTPAG ENDGSVALLKGQEMGRFKLGS TVINLFAPGKVNLEQLESLSV TKIGQPLAVSM*SKATQLGNPR
8707	39075	A	8764	1	1528	MTFVNAQAEDSQIFLYKRRYVP VEGYAPWLVSNGASELERIHYE GMDDVILLDFLPKELGFDMMN HILSFAPGANHGYIEHTFKEHG GATQAFAKENNHKAYKDTYG VSHITRDMLQIPKQQQYKEYQ DTHDTPYCEPLPGETRLWGD DVIGLFD AETDMNDVVAILENH PLLGAGFAHKIEQLEDKDWERE WMDNFHPMRFGERLWICPSWR DVPDENAVNVMLDPGLAFGTG TIQTLSPAMLDSSHTTRMRS TLNLYEITRMSTVSTSEHSMTY TLVQVDMKEAQKPDASYRTF NEFFVRPLRDEV RPIDTPNVL VMPADGVISQLGKIEEDKILQA KGHNYSLEALLAGNYLMADLF RNGTFVTTYLSPRDYHRVHMP CNGILREMIYVPGDLFSVNHLT AQNVPNLFARNERVICLS DTEF GPMAQILVGATNGGSIETPESE GATVDES FVVG GPVGD FELL C QERSALSGRCVI*SFNSAKVRFI QSRRPVKSA
8708	39076	A	8765	2	420	QNFKEIFVRPLRDE/VRPIDNDP NVLVMPADGVISQLGKIEEDKI VSNLFARDERVICLFDTEFWPN AQ/ILVGATIVCSIETVWAGT/IT PPREGIIKRW\TW\QAIEEDSWQ NLGRVAG*NKLPTELCNNFDW AQTLSRRNRG

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8709	39077	A	8766	1	1130	MHFAKKEDVSEIETGSDGEKPK ARAGCLIGNSERLFSVTFCVQF QATLPLSYTIMKHKDTGTSSVP ESIDASLEASQQNPAFLKTLTRS CSPSWPCSRNWPHELLIPTCPA QAGATPQLPGLGPPGHLPMNQ PASSFPPARPNAASQILTSTFHKP PPGSSLACCCCPGPCDWQEDSQ *PTPACPSWPPWPTQLSPAAGS PINHSPIQGFHSQLLS*RSPGTEE P*EANKLPPWTGHREPEPHPG PGHPCAAG/MHRPLAPTTR\RL ATLHGERQRHLHPGQRRRVPR APAESTEAPALWLHRPPECPEC SGHGPAALEQGAGMA*CRSCR HLPFCFPGEEADAGSREGPHQEV PRSKICQQPQAASFRICLHSIF
8710	39078	A	8768	179	1908	KKQNKSRGCNVNWAMRRALK MCIPYRNGHSIFLVMVKVERSK RFALKLSVAEKNQMPRNATVIE NSAGYSYGKMAFS*PRICTQIV GPRIISTTAVIS/SQPATHHRATR GAIIRTAFCGPCFGAGDTPINNG LSIRHTTRNFPNREGSKPANGQ MSAVALMDARSIAATAANGGY LTSASELDCWDNVPEYAFDVTP YKNRVYQGFVKGATQQPLIYG PNIKDWPELGALTDNIVLKVCS KILDEVTTTDELIPSGETSSYRS NPIGLAEFTLSRRDPGYVSRSK ATAELENQRLAGNVSELTEVFA RIKQIAGQEHIDPLHRVYRHCS RSGNCPSDVFDSKKDPVQDHRP QKRVTLIWGYDIHPQIEIIQTGD NFFQFRAIANNFGFLRFYQIRHF GLSGQHGVQIFTADVERGVGL RLQRFPPVVKHAIVQRQVEVIAV AHIEVQADIFTRSFRAIEANGHK VEQHFDHRPANGVRGTGGAVA ELMHPFAQLFRAGQVETAPCG GLGLIAQLFKVIRLQILRGESKK FSANLTALKLPLPMVYEGDKV LKHLLRPKFNLPPLVQPPKKML
8711	39079	B	8769	1	1881	
8712	39080	A	8770	2093	2287	

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8713	39081	A	8771	1	1358	MKINLKLTDNSKVADGQFANI VVFLINWFYIHATTCEIDNGGVI VADGFQASKAYSADSIVDYND AHYKTSVDQDAWGFVPGGDN PWKKYEPAKAWSASTVYVKG DRVVVDGQAYEALFWTQSDNP ALVANQNATGSNSRPWKPLGK AQSYSNEELNNAPQFNPETLYA SDTLIRFNGVNYISQSKVQKVSP SDSNPWRVFVDWTGTERVGT PKKAWPKHVYAPYVDFTLNNH HRRDTSFRSKATAELENQRLAG NVSELTEVFARIKQIAGQEHDIP LQTEIGSMVYAVKPGDGSARE QAASCQRVIGGLANIAEEYATK RYRSNVINWGMLPLQMAEVPT FEVGDIYIP\GIKAALDNP GTT FKGYVIHEDAPVTEITLYMESL TAEEREIIKAGRIRHLLSDAMLA HLIRPTNRIESVGQIRHFRSIRHL LSDAMLAHLIRPTNRIEP
8714	39082	B	8772	21	1623	
8715	39083	B	8773	32	1850	
8716	39084	A	8774	1	1193	MSEVEAAAGATAVPAATVPAT AAGVVAVVVPVPAGEPQKGGG AGGGGGAASGPAAGTPSAPGS RTPGNPATAVSGTPAPPARSQA DKPVLATRVLPG\TAKRFNVRS GYGFTNRNDAKEDVFVHWT VKRNNPRKFLRSVRDGETVEFD VVEGEKGAQATNVTGPRAAGV PMKGSRYAPNRRRFR*FIPRPPS VAPPPMVAEIPSA GTGPGSKGE RAEDSGQRPRRWCP PPFYRRR FVRGPRPPNQQPIELTGAFACS QGTDRVEPKETAPLEGHQQQG DERVPPPRFRPRYRRPFRPRPRQ QPTTEGGDGETKPSQGPADGSR PEPQRPRNRPYFQRRRQQAPGP QQAPGPRQPAAP EEA PTEAIKP MIAHDGHAPPNPSPTCCLEPSY QLVDVN

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8717	39085	A	8775	3	933	RHQESLCAPLEILQKKGCPCLE EPLQRQPCPCQSSEVTA**NISF RFASPGGN/SPWASH*APSVRG AAPAGPVGLEAAAGSEPHPGP/ PDAGGARVPVGGAGSRPRMVL/ SPRSAPHLGGGRSA/PAMRTGN PCTHTQVVTTSPNLPNIP*GAKS HPI/VERPLS*KGTGPSAPQIATE NIYP*QLHGKGPLIRD*KIVPHD GAAGQSPLLVRSCQRGYLP SAK*FFDALKIKFTLKLHLRRFSC TSLRGLLVSPLLLVRLLLAG WAHAWMHGCGGWEPRITQQR ASCQLPDRTKSKMRVKIPAANS SWLCH
8718	39086	A	8776	3	925	RGSEQIPPSSIPGAP*KMLFPSG/ SSEPEHL*TVPASSLGCRPGGPV ASRSRPPRPPARAALRGPPASSP IRFP\GASPRAPPTS*MRSGAGS KT/TPRPGPSASGDRPRAPCVRG PGCGSEPAAASSPTGPAG\VPRA R*GPGHGQTSPHGW*PSSMQQ RTRRCSPSSVPGQFPLLP/LSCS QVSPWTW*GLPYSLIPVSSLLP WPEDRVPSFVA/GPLPSFDNTS LPVEGGS*L/HPVCLLYVYQENS SKHIPYSCRGRIFPFSQRQVRM AGQRKLCDHPPGGLISKPLAWT RIPEAPVVAAMVEGGGGL
8719	39087	A	8777	144	503	
8720	39088	A	8778	15	427	
8721	39089	A	8779	1	1055	
8722	39090	A	8780	280	1480	FQTRMGISVATIPGTSCSWSMR ASEKEKDTFESTVQVSKLQDLI HRSKMARCRGRFVCPVILFKGK HICRSATLAGWGELYGR/QATT YFFSGGADDAWADVEDVTEED CALRSGDTHLFDKVRGYDIKLL RYLSVKYICDLMVENKKVKFG MNVTSSEKVDKAQRYADFTLL SIPYPGCEFFKEYKDRDYMAEG LIFNWKQDYVDAPLSIPDFLTH SLNIDWSQYQCWDLVQQQTQNY LKLLLSLVNSDGQTDKSLVAI RTSVGVALAQTSIGNALAYGTK KAQEQSQDGLIHTSLKPTEILYL TVAYDWFLFGHMLVDRLSKGE EIFFFCFNFLKHITSEEFSAKLTQ RRKSLPARDGGFTLEDIC\C*DE RTVAVPPDLVCDCLPGHGEFPR

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8723	39091	A	8781	2	588	HSFFFPNREKCSTKR*RLSASRF PP*PWSRLPSG/QPAGGASAGSP SAPRGTGRGAGSRPAHG/VQPP RAHPEAPCPACPRSVGGAR/RA PEPSSNLSGEAPASGDRDVPSPS PLAR*VPLGGREFGWPWANAA LRPGKTP/RSDRVSRSPWS/PAG FSVPASWPRRSTSGNRGPPSRPS RLSRTSGPLNRLGEPFDVQGPL
8724	39092	A	8782	1	198	
8725	39093	A	8783	1	275	MAGAPAPASLPPCSLISDCCAS NQRD SMGVGPSEPGAGYNLVP VEKRSIRVGVGTGFSRCCPSPLSL TRKGNLSTPWASQVRQCLALL QLAH
8726	39094	A	8784	349	478	KLSKFPYTEELSSGLYGIGSLCP HKYNCLVSSH SRCKN*VTGY
8727	39095	A	8785	1	325	FSEGN SYLVGIMHPLKAML PGL QYQTETFP PPGYLM/PCRLQQQ SHLLTLRDCCASNQRDSVG VGP SEPGAGYNLVVRRFLSLLEKRSI WVRVTRFSSALNHELKVNDH
8728	39096	A	8786	113	313	
8729	39097	A	8787	2	1991	
8730	39098	A	8788	512	1178	
8731	39099	A	8789	135	1562	DTLVPTSQGDISRGLEGNLNSC PT*Q**RAPFLWCQ/PKAEWGT WIFNPEAEESLEPRSLISDCCAN NQRD SVGVGPSEPGAGYNLVV RSFLSPSEKRSVRVGVTRL SRCR PSPLSLTQKGNPLTPCASQVRQ CLALLRLRHVYFYNFGWKDYG VASLTTILDMVKVMTFALQEG KVAIHCHAGLGR TGVL IACYLV FATRM TADQAIIFVRAKRPNSIQ TRGQLLCEAQQSGAFSADVSGS HSPGEPVSPSFANVHKDPNPAH QQVSHCQCKTHGVGSPG SVRQ NSRTPRSP LDCGSSPKAQFLVE HETQDSKDLSEAASHSALQSEL SAEARRILAAKALANL NESVEK EELKRKVEMWQKELNSRDGA WERICGERDPFILCSLMWSWVE QLKEPVITKEDVDMLVDRRAD AAEALFLLEKGQHQTILCVLHC IVNLQTIPVDVEEAFLAHA IKA TKISII FVNQNPEVTVLL
8732	39100	B	8790	563	2017	
8733	39101	A	8791	108	194	
8734	39102	A	8792	1	164	

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8735	39103	A	8793	1	1068	MEESRYWGTGRNRREGLKLO WAQPAPLFNIRQGPNEGDNQQ GSYWEALASIMQIIHLVPSGLG MVTAFHCSWYLSTTATFPGLV NPALTEIKSGNYVHGSFILQV ADYKEFQTLIMITKATFHQKTQ CWACEEGVQQSFHCPCRMQAA ASVERYTELLKEFLFKEHTCDN QEPTSTLHYHSKLTVHIHVYSS RCTLPCQPSQAAQAEISQPAP ACEDFVFAALAPP/ESG/RCPTL RLLGGLCTPTNARRTRTHSTTA CWARAQWDSLGLKLSHR\PR VCGGTRAPGRQGCMMGNQRLGT SNSEARDPGGLRVKHR/CEAIQ EPPNRSRRQGAPLHSPPAY*MS SWRP*SFSKRHNLS
8736	39104	C	8794	78	331	
8737	39105	A	8795	129	1734	QWMHRMLDIFKGSSQHPSVPR VSSRPPLGPQGYSLHHFGTQGI HSATPINTQGLQPAPMGTTQQPQ PEGKTSVVADGATIVANPIS NPFSAAPAATTVVQTHSQSAST NAPAQGSPPRSILRKKPATDG MAVRKTLIPPQPHDVASPRVES SMRSTSGSPRPAGAKPKSE\STC LWPLRSLCPWRLYPKIMISLPL PSLKLPSPPHRPFQL*LQQPVPR HNQPLPFQPFLESPSLHPSPL\A HCTTSISHCGWQSFLRLGPSRS* N*SERRSRTNGYHEASFVPPPL ATNTVSPSLALLANNLSMPTSD LPPGASPRKKPR\NNSMWISTEE GDMMETNSTDDEKSTAKSLLV KAEKRKSPPKEYIDEEGVRYVP VRPRPPITLLRHYRNPWKAAHYH HFQRYSDVRVKEEKKAMLQEI ANQKGVSCRAQGWKVHLCAA QLLQLTNLEHDVYERLTNLQE GIIPKKKAATDDDLHRINELIQG NMQRCKLVMDQISEARDSMLK VLDHKDRVLKLLNKNGTVKKV SKLKRKEKV
8738	39106	A	8796	1	169	RPTRPPKSNKRQCLVFVTPKEE EPVRNILEKFNTISGSKVRSYL HAPPLPLER
8739	39107	B	8797	156	398	

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8740	39108	A	8798	20	723	VWGGFELPRIWFMLPTSHQWM LFSVFLGWGSCQWSCSHLLSCL WRAAFSEFPLGPEPGEGIGPELC LCFQMEAIELSVDPKSNKRQCL VFVTPKEEEPVRNILEKFNTISG SK/CTEVQRGVIYPGHIR*R**SI PRGF*FYSK*GRPDSAGGHGPG GVLQGEKGHSACARQGGRFQE GAAFAQRETAGR RVGQRWCG DCFRTPVHRKSLSSPNFGGFGA GSEAVPCHLVLYLVW
8741	39109	A	8799	79	256	LRLTLFFQNLLGGKSSMLWTA HPCPEGACSSSCTSLGSHLLLSS FPVLGR*PGPSGDH
8742	39110	A	8800	402	996	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA VPRSVGSRWPC GA\PTLATPPTSASFSAATPEGP PLAS
8743	39111	A	8801	7	602	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA VPRSVGSRWPC GA\PTLATPPTSASFSAATPEGP PLAS
8744	39112	A	8802	262	349	KEGEGGK\PD*PVRMCPPKPSG HWKHPGE
8745	39113	A	8803	2271	2863	GGASGVVRSSWWARGLAGFRS EAADLRGLPVELRASPAPCVRT PQPLGGR\GIGRPGAEGGPCWG GSGRTGAHGGAEAGSSLGQP RKGLPQCSGG/PEGLLKCGQSG SPGRGRAQSERGL*GLPACCHL SH*PQGRQI*PRTCPTPFQSKTS DQGGPSGPAVSGSERQV*LHHQ *PGCRDYLCGPFCWEINPVWG

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8746	39114	A	8804	3	561	NCPSLLVESCFCQECGSSIPFALPS TQVEHALYASER*QRAGSPHSP HSLSVPLPLGLPLWRHLRSPS/G PPLH*PP*ASTLTGGPQ*RLGSA GINVSSEPVSRRPNV*SFPFPQY TVTLVKGWRSREPSPKSSVLGS/ MVP*STKSEP*REPI*SLTGKA GERGEKGREKAIGSGR*GVAKC SDHVR
8747	39115	B	8805	298	380	
8748	39116	B	8806	1	1292	
8749	39117	A	8807	1	1224	MKPRTLA VSVTALKVARLEFV PSDVRMCSEFLPSGGLVVS LAS GVKLQTF AVSVTARN SVD PKN SGAQLASPSGSSTRAASGAAC* SPSPPPCARTPQPLGGRTGTGCP GAGGGTRRGGSGRTGAHGAAE GVGSLGQPRKGPPTVQWWAE GLLKCRQSGSPGRGGAESKRGL *GLPASTLSP\PPG\ECAGKSENS HMNLNCSGGSLPGTG AHLPL GPD SGQPAETLLWG PCCGPGG TGLTSGQTISLGCQGGQPRRE VKPPVPQRVSVLLVAVNPP PDS RCRVETDRPWRLCIQSCLCGTL KRDVLHSPSVVFNTTRGGTAE WSREDKDALLPEYALHMPFAV GFKLEYKEGVLGSNLAAGPEK ELCEAKRNQCPKSGVSHTSRPL KPEWSDFVAEIDESKL PDRS
8750	39118	A	8808	1	1298	ESLRAGSFQEIQPELAPLIILRG FGTWPGWSFQATGFCVGVGRS PGSGFRGCGAYRAP*SFRTQLW PWQPLQGLDPKPLKDALRPSPL GRRACAEHHLCSADERPDLGFE GLQRWGGCRGSQGKPAVHQA WGRCGEGTGGGHTGSPPPRLTP P/PGPGSFRAQPGERRPAACGQ QRALGPMRPPAC/GPSPT*GCA LNPTSPAPLV*GFIHIVAAFCF VTPVSKSHSFQLGGELRVAGSD VGGRWGERENTQGSTLPPSSPAS SPGSPSPDPATPPGPATPGLIDIL LLLPMVASSRKHDF\SGFSGRLP PQGEFFQ*GPTGWQSWVWPLD PSYLGCGCGCGGQGPRTGRRG ASSHCCVPAAP/GLSMDCSRGS GGSPPRSPPWALLGDLPSLET VCLVMMFPCPIWMASEFAMEI QLLGPFWQIMLIGLCW

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8751	39119	A	8809	2	662	RIPLLVTRLKINEKVLQVLTNIF LFHDFSQVQNFQGLQLSLEHFI SQPLSVLCCNLPEAKRRINFLSN NQCENIRRLPSFRRYVEKQASE KQVALLTNERYLKEETQLLLEN LHVYHMNYFLVLRCLHKFTSS LPKYPLGRQIRELYCTCLEKNI WDSEYASVLQLLRMLAKDEL MTILEKCFKGFKSYCENHLGST A*RIEEFLGQFQSLDEPRGR
8752	39120	A	8810	326	1215	NPILHGNFIFMLDHSKLVQDQ E*TLM*/HYGPQVVTMCQCSFIE RNKRIPVVQGIIRGRGHVQWG RYVEKQASEKQVALLTSECL KKETQLLLENLHVYHMNYFLV LRCVHKFTSSLPKYPLGRQIREL YRTCLEKNIRNSEEYASVLQLL KMLAKDELMTILEKCFEVFKSS CEKHLGSTAKRIQEFLAQFQSF DETKENEALKKEEGCIPNITPDI CIAYKLYLECRRLINLVDYSQA FATILTAAEKMDANSTSEEMN EIIYAWCIRTVFELELLGFIKPTK QKTDHVARLT
8753	39121	A	8811	70	613	SLLEMKELRRSKKQTKFEVLRE NVVNFIDCLVREYLLPPETQPL HEVVYFSAHAHLREHLNAAPRI ALHTALNNPYYYLKNEALKSE EGCIPNIA\PDICIAKYLHLECSR LINLVDWSEAFATVVTAAEKM DANSASSEEMNEIIHARDIRAVS ELELLGFIKPTKQKTDHVARLT WGGC
8754	39122	C	8812	598	762	
8755	39123	C	8813	138	296	
8756	39124	A	8814	1	395	

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8757	39125	A	8815	2	1289	DDLALAFKVLHDKQRGPTGF YAPFNSRPL*KPQLAHSIILMET ATERISRLLLPFADQHVEIPSLT AGNIALTVGLKHTATGDTIVSS KSSAL\QLVEPNGREKRSTDK TMKAERLLLAGSGRFQEPVFFC TIGTPITV*GSQIWEHAFEMSFS VRIPVLKVRDPDQSGQTVLCG MGELHIEIIHDRIKREYGLETYL GPLQVAYRETILNSVRATDTLG *EL*GDKRHLVDLLGSGKARPI ETSSVMPVIEFEYAESINEGLLK VSQEIENGHISACLQGPLLGSP IQDVGNLYLYIP*QIHPWAPSTTY DFCLCLKMPCKKALERKADKQ VLEPLMNLEVTVARDYLSPVL ADLAQRRGNIQEIQTRQDNKV VIGFVPLAEIMGYSTVLRLTSG SATFALELSTYQAMNPQDQNT
8758	39126	A	8816	545	849	LAIHLSSL\SRHDDEATRST\SE GLEEGEVE\GETLLIVES\EDQAF S/VDLSDQSGGISLNSDEGDVS WMEEQLSYFCDKCQKWIPASK ELLNSFDLSIPV

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8759	39127	A	8817	1	2395	MDSSIHLSLISRHDDEATRST SEGLEEGEVEGETLLIVESDQA SVDLSHDQSGDSLNSDEGDVS WMEEQLSYFCDKCKQWIPASQ LREQLSYLKGDNFFRFTCSDCS ADGKEQYERLKLTHWQVVML ALYNLSLKSGRQGYFRWKED ICAFIEKH*TFLLRNRKKTSTCR STGAGCLSVGSPMYFR*GA*EF GEPRWWKLVHNLPLTMKPERE KTAASTLNIFAASKPTLDPIITVE GLRKRASRNPVESAMELKEKR SRTQEAKDIRRAQKEAAGFLDR STSSTPVKFISRGRRPDVILEKG EVIDFSSLSSSDRTPLTSPSPSPS LDFSAPGTPASHSATPSLLSEAD LIPDVMPPQALFHDDDEMEGD GVIDPGMEYVPPPAGSVASGPV VGGRKKVRGPEQIKQEVESEEE KPDRMDIDSEDTSNTSLQTRA REKRKPQLEKDTKPKEPRYTPV SIYEEKLLLKRLEACPGAVAMT PEARRLKR\KLIVRQA\KRDRGL PLFDLDQ\VVNAALLLVLDGIYG AKEGGISRLPAGQATYRTTCQD FRILDYQTS\LPSRKGFR\HQ/T TKFLYRLVGSEDMAVDQSIVSP YTSRILKPYIRSDPHWTPDPAP LDYCYVRPNHIPTINSMCQEFF WPGIDL\SECLQYPDFSVVLY KKVIIAFGFMVP\DV\KYNEAYI SFLFVHPNWRRAGIATFMIYHL
8760	39128	A	8818	3	364	GDSVPTAEGGDQVCVILSSVPQ TVWEPMFNKRACG/P*SP*SLSA TSIYPRELKAGTQKDTCPVFR AVLFTTATQCPSTDAWMNKM WYSRTMECYSALKRKEIPPHAT ARHPMCLQFCRW
8761	39129	A	8819	292	508	ARPGDQATSGGQGTTFQHPLFC FELGGSQNPAQ*PFAAACPVG AD*TKFTFAFCCRLK*KRTCCL SLGSR
8762	39130	C	8820	253	369	
8763	39131	A	8821	295	393	IYFGCLLGEPVVAEAGIWDN DCVKKQLLSW
8764	39132	B	8822	91	479	

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8765	39133	A	8823	1	544	ARHPDMKKRVEDASILPCNVSL EYEKTEVNSGFFSKSAEEREKL VKAERKFIEDRVKKIHELKRKV CGSDSKGFVVINQKGIDPFSLD ALSKEGIVALRRAKRRNMERLT LACGGVALNSFDDLSPDCLGH AGLVYEYTSAPCPKQSGLCILSS TLGEEKFTFIEKCNNPRSVTLII KGPKNHTLTQIKDAVRDGLRA VKNAIDDDGCVVPGCWCRGKW AMAEALIP*APVLKGRAQLGS PKHLLDAFAHYFPKVLCFRNSG FLTQFQNIKLKFAEHSRIQVQL VGVDL\NTGEP\MVASRSKAVW GHT* LW *KKTSLPSTPCTW*IA\ TNILLGLNEIMRAGMSFS*KGF VVINQKGIDPFSLDALSKEGIVA LRRAKRRNMERLTACGGVAL NSFDDLSPDCLGHAGLVYEYTS PACPKQSGLCILSSSTLGEEKFTFI EKCNNPRSCHIIDQRTK
8766	39134	C	8824	636	1025	
8767	39135	A	8825	33	1505	KCISASVKVDFSDLLSNNTS*S AFTPTRTQKSSSKLLRKESHYS GMMSIQEKSKENSSKVTKKSD DKNSETIEIQDSQKNLAKKSGPK ETIKSQAKSSSESKINQPELETR MSTRSSKAASNDKATKSINKNT VTVRGYSQESTKKKLSQKKLV HENPKANEQLNRRSQRLQQLT EVSRRSLRSREIQGQVQAVKQS LPPTKKEQCSSTQSKSNKTSQK HVKRKVLEVKSDSKED/GKSSN **SNKFS/SKGKNAR*NIR/SACA CSSQCTQGSEKCPQKTTRRDET KPVPTSEVVKRSKMATSVVVK KNEMKKS VHTQVNT/KHNTPK KSTAI S A*TK***AGASRKEQTR *YSPA\REEIAGEIESDNVEVKK ESSQMESVKEEKPSEIKLEETSV ERQILHQGTNQDVQCNRFFPS RKTTPVKCILNGINSSAKKNSN WTKIKLSKFNSVQHNLDSQVS PKLGLFTNQFFTTFRNASSSDS KYIFRDKAT
8768	39136	A	8826	1	394	AISRALGRYVLFPCLIQDGIFVA HTAHAILTSLED\SL*MFQPKTC WCLAN*HDTLSVNMETPHPSF QEELSGLLLLKMLRSPIEASKD KDKVKSNAVRALGNLLHFLQP SHIE*PTFAQINEEAIQALIS

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8769	39137	A	8827	52	730	KSACDALSSILPEAFRNLPNDR QMLCITVLLGLNDSKNRLVKA ATSRVAGVYVLPCLRQDVIFV ADAANAMVMSLEDKSLNVRA KAAWSLGNLTDTLIVNMETPD PSFQGRVLWSPAENGYDQAL EASKDKDKVKRHAVRALGNL LHFLQPSHI/GKTPHLQKFI*GSL SRALNFLLF*QKLAMKVRWNA CYAMGNVFKNPALPLGTAPWT SQAYNALTSVVTS
8770	39138	B	8828	47	1576	
8771	39139	A	8829	2	2753	
8772	39140	A	8830	1	273	
8773	39141	B	8831	104	206	
8774	39142	A	8832	1	987	
8775	39143	A	8833	111	2187	DERRVGAADMFGRSRSWVGG GHGKTSRNIHSLDHLKYLYHVL TKNTTVTEQNRNLLVETIRSITE ILIWGDQNDSSVDFDFLEKNMF VFFLNILRQKSGRYVCVQLLQT LNILFENISHETSLYYLLSNNYV NSIIVHKFDFSDEEIMAYYISFL KTLCLKNNHTVHFFYNEHTN DFALYTEAIKFFNHPESMVRIA VRTITLNVYKVDNQAMLHYIR DKTAVPYFSNLVWFIGSHVIEL DDCVQTDEEHRNRGKLSDLVA EHLDDLHYLNDILIINCEFLNDV LTDHLLNRLFLPLYVYSLENQD KVFLIIHHAPLVNSLAEVILNGD LSEMYAKTEQDIQRSSVLPTLSS LWQGSLSLNQLQSGLHKCSS HLCGAQAAADSVTGEIPAIRSL EWLISAGSKARTFFFLKMLIGF WEKVDCEYQRRQVLSTRLQEA LPSNRLTDVAHVHSSCMLGFGS TAPRGSWIGDPAAVHLPLPGEL AEHLGSKGTTTGTKHQPQAKPS IRCFIKPTETLERSLEMNKHKGK RRVQKRPYKNVGEEDDEEK PTEDAQEDAEKAKGTEGGSKGI KTSGESEEIEMVIMERSKLSELA ASTSVQEQNTTDEEKSAATCS ESTQWSRPFLDMVYHALDSPD DDYHALFVLCCLLYAMSHNK/G KSPEKEEGLSGTQSHPGKAGTF GKEGAEERKRAQV

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8776	39144	A	8834	1	3050	RNLLVETIRSITEILIWGDQND SVFDFFLEKNMFVFFLNILRQKS GRYVCVQLLQTLNLFENISHET SLYYLLSNNYVNSIIVHKFDFSD EEIMAYYISFLKTLSLKLNHT VHFFYNEHTNDFALYTEAIKFF NHPESMVRIAVRTITLNVYKVS LDNQAMLHYIRDKTAVPYFSN LVWFIGSHVIELDDCVQTDEEH RNRGKLSDLVAEHLHLHLYLN DILINCEFLNDVLTDLHLNRLF LPLYVYSLEN
8777	39145	A	8835	111	270	
8778	39146	A	8836	240	406	
8779	39147	C	8837	86	286	
8780	39148	A	8839	172	243	DPS*EARSMLLLLFLPPDHSGLP H
8781	39149	A	8840	280	526	GRNAVVS*AHCRSQTGPK*S SL/LVFPSS\WYRHMPPHLAN* KKFFLHRDGGDLMLPRLVWNS WPQVILPPQPPKALGLLL
8782	39150	A	8841	3	1785	VLDARNAGAGGLAGPAGVLRG RASRCDPGAAGVAGGAGGARVR PGRAAAPSPGPPGGA*CVPTDA GAGPGSAGARQLPFAAGALS HSGHC*RGLRGPGLASPAQAK AAWSGLLLSPAAAGRDGGRGH NPRDPPPLREHGPFGFHGDR G*ELYQCHLGEGG\GPDKPGS PCASCGLDGHWRALLLETFRP QRCAQVLHVDYGRKELVSCSS LRYLLPEYFRMPVVITYPCALYG LWDGGRGWSRSQVGDCLKTLIL GKAVNAKIEFYCSFEHVYYVSL YGEDGINLNRVFGVQSCCLAD RVLQSQATEEEEPETSQSQSPAE EVDEEISLPALRSIRLKMNAFYD AQWKENGYRRAIVTKLDDKSV DVFLVDRGNSENVDWIINMLL RFLTNQEQQEETISKVIAQAGY AKYQEFETKENILVNAHSPGHV SNHFTTESNKIPFAKTGEGEQK AKRENKTTSVSKALSDTTVVTN GSTELVVQEKVKRASVYFPLM QNCLEIKPGSSSKGELEVSTVE VRVSYVENPGYFWCQLTRNIQ GLKTLMSDIQYYCKNTAAPHQ RNTLACLAKRVTNRQWSRALIS

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8783	39151	A	8842	2090	2901	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCDA SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEVEVEVAPLT ITPSDPLAKFLLSVPVTLRSAGL EVLVPGEGLPPGNTRTIPLNW KLRLPPGHFGLLLTLSQEAKNG VTVLAGVIDLDYQDEISLLLHN GGKKEYARNTGDPGLRLLVLP CPVIKINGKLQQPNPGGTTNGS DPSGMKV
8784	39152	A	8843	1	585	
8785	39153	A	8844	1	1697	MDKYFMIKTPKAMATNTTIDK WDLIKLKNFCTAKETMIRVNR QPIECKKMFAIYPSDKVILLFKM APKRNAEGLSTVSTCKKAAMC LIEKGCELVGPVGPQTHPVVTS PVSECIIGIDILSGWQNPFIGSLT GRVKAIMVAKDKLKPLELPLPG KIVNQKQHCIPGWIVEISATIKD LKDAVIGIPTLPPFNSPIWPVQK TNGSWRMTVDYHKLNQVVTPI AAAVPDVVSWEQINTSPGTCL HWWPHGEFPRLVDREERTRTW FTDGSQAQYAGTTQKWTPAALQ PLSRTSLKESECFIHHHGIPHSIA SDQGTHFMAKKVRQWAHAHEI HWSYHVPHYPEAAGLIEKWNG ILKPQLQCQLGDNTLQGWDKV LQKALYALNQHSVYGTISPIAR IHRSRNNQEVEVEVTPLIITPD PLAKFLLPVPSTLHSLDLEVLVP EGGMLPPGHTAMIPLNWKRL PPGHFGLLLPLSQQAKKGVIVL AGVIDLDYQNEISLLLHNGGKE EYALNIGDPLGHLLVLPVPCVIN VNGKLQQPNPGRITNGEDPSG MKVCVTPPGTTTTTKKP
8786	39154	C	8845	1	720	
8787	39155	A	8846	57	261	WNF/CDPGGPMML\FISFKLKT ISSTFLSPTCLVL*RRPSRSASSL TVLCTTTRSSSPLLALV*TW
8788	39156	B	8847	1	1158	
8789	39157	B	8848	1	2523	
8790	39158	A	8849	3	375	
8791	39159	A	8850	3	169	DFQPFTRVTVHWGKGNDQTFR GLLDTGSELTLPDGPKHHYGP PVKVGAYGAQLL
8792	39160	A	8851	3	376	

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8793	39161	B	8852	1	592	
8794	39162	A	8853	1	319	
8795	39163	A	8854	1	1071	
8796	39164	C	8855	1	862	
8797	39165	A	8856	1	1488	MGRARRLTPVIPALWETEADGS RALTVETTQTQLQHLNTVGIIG FRGGRGQVAAVNCQKRDIQPF TRVTVHWGKRNDQTFQALVDT GLELTLIPGDPKHHCDPPVKVG AYGHQVINGVLAQIQITVGPVG PWTHPVVIFTVPKCIIDIDILRW QNSHTGSLTGRMKAIMVGRAK WKPLELPLPRKTVNQKPYHTPV GTAEISATMKDLKDAGVVIPTT TLFNSPIWSVQKTGGSWRMTV DYCMLNQVVSAAVEAIVLDVVS LLEQINTS/P/WP*SGSCTAAFHH QMEVVHT*SGSSRS*RHNCTN GLMGSL*SVDRGREYGLVH RRFTIC*HHPKLDSCSTTVPF* DIEGQL*REIFPPVSWRQGW LCMGSAWTFTHQG*PGYGHC *VPNLPAETNTEPSIWHHSSG* SASYLVAG*LYGTSSIMERA CPHWNRLHF*IWVVCLSCTLCF C*DYHPWTLEMPYPPSPYSTKL CCCPRHLLYG*RSAAV
8798	39166	A	8857	1	1056	MSSVLLRLIYQLTQKTASFEGG PEQKALQQIQAQAAVQAALPLGPY DPANPMVLEVSADRDVWSL WQVPIGESQQRSLGFWSKVL SADNYFPFERQLLACYWALLET DRLTVGHQVTLQPELPIMNWV LSDPSSHKVGHVHQHSIIKWK WYIRDQTRAGPEGTTTPVITQ/ WDAHEQSGLSGRDQKQGRFV LTGVDITYSGYWFAYPAHNSA KTSIYGFTCLIHCHGIPHSIASD QGTLFTAKEVWQWAHAHGIH WSYHIPHHPIAAGLIEWWNGLL KSQLQCQLGDNTLQGWGKDL QKAMYSLNQRLIYSTVSPISRIH GSRNQRVEVEVAPLTITLSDPL AKFFFLLP
8799	39167	B	8858	603	1785	

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8800	39168	A	8859	3	467	RIHVRPEITLTA/ANTARPY*IDP HDTLLSHSNFGSSDCPSSSKMR QALELVRERAPELMIDGEMHG DAALVEAIRNDRMPDSSLKGSA NILVMPNMEAAARISYNLLRVSS SEGVTVGVPVLMGVAKPVHVL PIASVRRIVNMVALAVVEAQTQ PL
8801	39169	A	8860	1	1878	
8802	39170	A	8861	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIAKLL RFASHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRLTHA GSGLVGENV
8803	39171	A	8862	2	393	LEFGKKLGNAADYFIANKIDQ PKIAVINCEAFEVCVQRRKGFE EVLKSRVPGAQIVANQEGTVLD KAISVGEKLIISTPDLNAIMGES GGATLGAVKAVRNQNRPEKL LFSVRI*QPKLLRSWKTIRC
8804	39172	A	8863	414	805	TPSRVEGNQEYPSLVYIPISQAP WNM*TRDHKHGLNLYVQRVFI MTDAEQFMPNYLRFVGGIDSS DLPLNVSREILQDSTVTRNLRN ALTKRVLQMLEKLAKDDAEKY QTFWHQFGRGIIIFTDSQFNR
8805	39173	A	8864	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIAKLL RFASHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRLTHA GSGLVGENV

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8806	39174	A	8865	1	624	AKLLRFASHTDSSAQTVSLED YVSRMKEGQEKIYYITADSYAA AKS\SPHLELLRKKGIEVLLLS RIDEWMMNYLTFDQKPFQPG AKVDESLEKLADDEVDESAKEA EKALTPFIDRVKALLGERVKDV RLTHRLTDTPAIVSTDAD*MTP RMA\KCFGGAGQKVPEVKYIFE LNPDHVLVKRA\ADT\EEEAKF CVWGKNCVLGPF
8807	39175	A	8866	471	659	
8808	39176	A	8867	638	834	SSNTMMHFQIHMKQESTEQQT MTARR*Q*SEVDE*REDTTLAA RGRTEA*SARYQLT*QSVSPH
8809	39177	B	8868	1	1383	
8810	39178	A	8869	4452	4896	SQHSEVVFVCHMLSQPRAPGAG RYL/LQRKA/SEALEVEV/VDTW QADAVRDTRTLS\GGESFLVSL ALALALSDLVSHKTRIDSLFLD EGFGTLDSETLDTALDALDALN ASGKTIGVISHVEAMKERIPVQI KVKKINGLGYSKLESTFAVK
8811	39179	A	8870	31	185	GHRRRPFKRGRKSR*RGGSQRR VNEDARRSAWMRKKQRRLISK ISDRTARK
8812	39180	A	8871	1744	2670	

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8813	39181	A	8872	1	1680	MGFWVENGEIQYPVSEITIAVSS LVFSSASFAADLEDNMETLNDN LKVV EKADNAAQVKDALTKM RAAALDAQKATPPKLEDKSPDS PEMKDFRHGFDILVGQIDDALK LANEDVFTRTLGADALYQFQNI RHVLRMQRIAAGEGNTLAFDT SVIQIVNDLVFHCFCGKWLTGIY PPCAFVIATGAFMNTPGDKQGA TSAGAVDDVDRI SNEITIGIPML TGYILLHVKGVRKSSADHRR RPLASLATPPHKS WTCTLLFFR LPNVVCYANRIQQLTPILETLPQ SDELPHCEETVVLENWRQVHE QCLALHSQQQT LQQQDV LAAQ SLQKAQAQFDTALQASVFDDQ QAF LAALMDEQTLTQLEQLKQ NLENQRRQAQTLVTQTAETLA QHQQHRPDDGLALT VTVEQIQ QELAQTHQKLRENTTSQGEIRQ QLKQDADNRQQQTLMQQIAQ MTQQVEDWGYLNSLIGSKEGD KFRKFAQGLTLDNLVHLANQQ LTRLHGRYLLQRKASEALEVD VVDTWQADAVRD/TRTLSCGE/ SFLRLR*VTRRHQLWLHPLRH
8814	39182	A	8873	3	823	
8815	39183	A	8874	287	426	YSGLSAVNPVNDA YGVRFQLP SVNRIPVS***VKLAPPAHQIKRI SGKCRFIPLC*YAPPGFSSASTM RATGILSTASQPPGKLPCMEEST AERRVGLPPLAKW
8816	39184	C	8875	1	2058	
8817	39185	A	8876	1	1989	
8818	39186	B	8877	1	3132	
8819	39187	A	8878	194	789	LTKLPSLFTFTRLSSSDNDLRGG DKRGGANGARLAL*PQTRTGD VTRRQPIRVCTVIEMFELLE/PIA DGFRNYRARLDVST/TESLLIDK AQLTLTAP/EMTALVGGMRV LGANFD/GSKNGVFTDRVGVLS N/DFFVNLLDMRYEWKATD/ES KELFEGRDRETGEVK/FTASRA DLVFGSNSVL FVRILGGFFCEYS LTIRILH
8820	39188	A	8879	1120	1395	

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8821	39189	A	8880	1	629	THRPPKSGPPCAKITRTTHVTA KPLFPQTNPKQTVRRMQGELY LVDESGQEFVSALNYRRRKTR NNATAYPIRLFYLSVRPRAGSK SSRTIWILLAD/AKITPYERRQL VARIEA/LSTEIPAQVRPLYQLW RDGQALQLQLAEERQR/YTGG ADTKQDGATTTKDKQQR*TKG TRSQPSTREVQQQSTQKHSTSR PPNHSAQPSNSALVTRQ
8822	39190	A	8881	3	307	
8823	39191	C	8882	161	337	
8824	39192	C	8883	34	168	
8825	39193	C	8884	172	456	
8826	39194	A	8885	174	516	VSGVRCWIHSSAFPPVFPGFLLP VAFFDRPPARLYRMHTWSHME SQEPARLP SHYAD*GQGSQKR\ DSCSSGWAGLLFISPQFVLWSA EIEGSLNHITLGFRLSHGTTSD GMTF
8827	39195	A	8886	1	2964	
8828	39196	A	8887	1	2724	
8829	39197	A	8888	3708	7098	
8830	39198	A	8889	115	339	
8831	39199	A	8890	445	634	VINTFSLHTMGSTS*HQGNGWR HLTLHPRNSKHPLAQPTPGVLQ LRPPTASLRQLLSNAGCSG
8832	39200	A	8891	1663	2234	GEGLRRGLFPGAQAQGRAETA GCLRRGRGALALALPGSPGLSP WVEDAGGHRVLHGRAVLRC RAPPVPQAGLAKVEPYSGVSS LTAFPQAPILLSSGGQSRAGERT TM*G*PEMEKL*SCIGEGHQPC HR\KSRPAAPCPPPSAMFLTPR SSATLLSSSSKGASGGWEPSAA PLGGSGQPFREMVSQH
8833	39201	A	8892	202	542	
8834	39202	A	8893	564	1179	QHRLTYRTALWIHYRPDPKPL MSFRPGHQRLSVTSLLVCHGLL MVGTSGLGVLVALPVRLSSPSL PPVELL*HSVCVSVCRGISCL*W RLWDQISDW\RTLIQPPRPPSC CPVVASPGPGKGPQCNGDPKW KSCEAASVKGTSPATGKSRPAA PCPPPSAMFLTPRYSATLLSSS SKAASGAREPSAAPLGGSGQPF REMVSQH
8835	39203	C	8894	321	539	

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8836	39204	A	8895	630	983	NLETNGKIPFENPWSKVPIRFGR QNLRRVCLTTGGQIPTGRWVT ATDSRGAGDYRLCLHHLR*PD GARLSAGSADCAANRRDVGDS GRGLPGRLSVQQPRRVRRGQP DVQPVSWPGC
8837	39205	A	8896	31	144	
8838	39206	A	8897	1	1775	MEISFTRVALLAAALFFVGCDQ KPQPAKTHATEVTVLEGKTMG TFWRASIPGIDAKRSAELKEKIQ TQLDADDQLLSTYKKDSALMR FNDSQSLSPWPVSEAMADIVTT SLRIGAKTDGAMDITVGPLVNL WGFGPEQQPVQIPSQEQIDAMK AKTGLQHLLTVINQSHQQYLQK DLPDLYVDLSTVGEGYAADHL ARLMEQEGISRYLVSVGGALNS RGMNGEGLPWRVAIQKPTDKE NAVQAVVDINGHGISTSGSSRG D*DGYGQGLSRVIDPQTGRSIE HNLVSVTVIAPTALEADAWDT GLMVLGPEKAKTCSPGGLRGT ESLNTLRDRITQINGIDEVRMD DSWFARLAALTGLVGRVSAMI GVLMAA VFLVIGNSVRLSIFA RRDSINVQKLIGATDGFILRPFL YGGALLGFSGALLSLILSEILVL RLSSAVA EVAQVFGTKFDINGL SFDECLLLLLSSMVTFWCRNLF TSLLELWINHADKQDDNSCLSS ASVYLKAKMMKVMLPMQLLS SGTG FYRDRLENSGGRYESRRS LTRQFREEPTAPIPRECSQRIDFL LFETPSVSASSAGFWLRFGSTA
8839	39207	A	8898	10	300	PTSIPRESSSGTWQVASTTVLF SAILAGLGSASAFCLGPGIPQAR PNNSAVNSKNSRFGIPRQAE*P EQGGVYHHTAGVLKKLIPPSAR QHPDRC
8840	39208	A	8899	1657	2061	QMPGNNPAFSALLVAFKHQFAI AGGIFIKEVTFAIKTSQLLWFGQ PIFNNETTHQTACFLSVEADDL KFAVLLIEEHLRLNLGIQFLRLH RFKILI*RQINHIIALCCERLVQ LVGDDISPEFDELELRFSEVH
8841	39209	B	8900	26	1540	
8842	39210	A	8901	1	3396	
8843	39211	A	8902	1	3522	

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8844	39212	A	8903	1	105	SPQPDRHYRHHRRQGGLVCIVIIIF YFCAKRWMAAIL*TQHRHRFL TTDDGKFAVANGSFS*RGLHH/ ATGLLRFPIC*GPLVCIVIIIFY FCAKRWMAAIL
8845	39213	B	8904	1	960	
8846	39214	B	8905	1	2618	
8847	39215	B	8906	1	490	
8848	39216	A	8907	2820	3332	ATEGYRQQCRQFHAAAYDESP HRNRRRKWRPTYRCHPAPDHR TACLRSAFYGNAPGCVQTGPV RRSGAASASSPAVFLSGTSPWS FARTIALVGRS/LKIDTNSPWA YFSALLM/F/DLLSHVHEWCGR YISPPRFAQTGETLPCRRHQGSR YSAYLSASRYPARRKWYFSPR
8849	39217	A	8908	3	716	EVDDTAKHRRRDSFPQ*DP/LM NIRYAPSP/HLPATVALTGAVIIT VLYALAGKRLFCSWVCPLNPIT DLANWLRRRFDLNQSATIPRHI RYVLLVVILVGSALTGTLIWEW INPVSLMGRSLVMGFGSGALLI LALFLFDLLVVEHGWCGHICPV GALYGVLGSKGVITVAATDRQ KCNRCMDCFHVCPEPHVLRAP VLDEQSPVQVTSRDCMTCGRC VDVCSERVEDVPITTRWSSGAKS
8850	39218	A	8909	3	323	
8851	39219	B	8910	94	2205	
8852	39220	A	8911	504	694	FNQLGRDWRTYRKSPPR/Q WLRHSPVR*VLKMVPMAIRGL LWMLSAQPAPAICSSRQTKMV
8853	39221	B	8912	1	2031	
8854	39222	A	8913	3	190	FIATPGYTGEAGYEIALPNEKA ADFWRALVEAGVNPCGLGARD TLRLDGDESYG/QEM/DETVPSP* AMKLRCMPMKRPISGVRWWK RVLTHVAWARVTRCVWTGMN LMARDGETVSP
8855	39223	A	8914	1	621	MWPSVSHLTQMNIPIRSFSEPSG AIEVPPDKVHELRLRLAQGLP KGGAVGFELLDQEKFGISQFSE QVNYQRALEGELSRTIETIGPV KGARVHLAMPKPSLFVREQKS PSASVTNLLPGRALDEGQISAI VHLVSSAVAGLPPGNVTLVDQ GGHLLTQSNTSGRDLNDAQLK YASDVEGRIQRRIEAILSPIVGN G\TAQLDFAS
8856	39224	A	8915	1	2274	
8857	39225	A	8916	957	1067	

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8858	39226	A	8917	1	1242	MDGLNTDKGSSVFHTPTDRLVI CCPVDADERMTTPPRLWDHEP SKPLFFTNYPVSAFVGL/PPGK RPQGGFRAGNL*TSSKTIGRDL NDAQLKYASDVE\GRIHRRIEAF LSPIVGSGNIPAQVRAQLDFASK DQPREEQYRPNGDESHAALRSR QLNESEQSGSGYPGGVPGALSN QPAPANNAPISTPPANQNNRQQ QASTPSNSGPRSTQRNETSNYE VDRTIRHTKMNVGDVQRKLGII GQGKNEKPLKQLERVEEKPNG EGWEKKWQGKEVWKKEDGTI YLQKNKLRAPTDSTLWFAKNG RVAKIAKALVEPANNFNPGVD EDDTEKLLLEVPEELTNEKLDL EQKCIHIYDDKRKQTKQTPQDV FLKRVTSPPQEPQPGSGGPIPEG IVIIGEDSSVQVLAPEDLPVEKL
8859	39227	A	8918	256	1510	RRFVGFRGTGVTKEAIGKRGV DQFFRQSQYRLVGVTVAGMPE LTRLFVQRFTQFRMRMAQRVH RNATREVDILFPLLIPQARTFAT YRYKGCERSVNRYPFIKVFTRN WREADLSLKR*V*TLLNDTGYQ EVITYSFVDPKVQQMHPGVEA LLLSPISVEMSAMRLSLWTGL LATVVYNQNRQQNRVRIFESGL RFVPDTQAPLGIRQDLMLAGVI CGNRYEEHWNLAKEVDYFDL KGDLESVLDLTGKLNEVEFRAE ANPALHPGQSAIYLKGERIGF VGVVHPELERKLDLNGRTLVE LEWNKLADRVVPQAREISRFP NRDIAVVVAENVPAADILSEC KKVGVNQVVG\VNLFDMYRGK GVAEGYKSLAISLILQ\DTSRTL EEEEIA\AT\VAKCVEALKERSQ
8860	39228	B	8919	47	156	
8861	39229	B	8920	139	993	
8862	39230	A	8921	1	284	MRRKRLIRPTVQAQVCRPDKTR KRRIRQWC/YGCRMRRKRLIRPI KYANRQAETA*GLDALHLSCSS HG*KGPT*SSGHGFRGCKPQAL EASMWC
8863	39231	A	8922	1	813	
8864	39232	A	8923	1	1176	

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8865	39233	A	8924	3	618	AGGPPLNPIEMA*KS\WDEIIVK LEKDPQLKTQFLEVYPQGFSGE NITDAIAEFEKTLITPDSPFDKW LRGDENALTAQKKKG YQLFKD NKCATCHGGIILGGRSFEPLGL KKDFNFGEITAADIGRMNVTKE ERDKLRQKVPGLRNVALTAPY FHRGDVPTLDGAVELMLRYQV GKELFQEDVDDIVAFHLSLNGV YTPYMRDKQ
8866	39234	A	8925	2	212	QYPGLDLHGAKGLGDGLAGKR YRQLLVSC\RHVLYRHPAGPGT RK*RRSGIRWLHRLCGNEPRGK LLVDQ
8867	39235	A	8926	1	640	
8868	39236	A	8927	1	704	MSSFQFEQIGVIRSPYKEKFAVP RQPGLVKSANGELHLIAPYNQA DAVRGLEAFSHLWILFVFHQT MEGGWRPTVRPPRLGGNARM GVFATRSTFRPNPIGMSLVELK E VVCHKDSVILKLGLSLDLVDGT PVVDIKPYLPFAESLPDASASYA QSAPAAEMAVSFTA EVEKQLL TLEKRYPQLTLFIREVLAQDPRP AYRKGEETGKTYAVWLHDFN VRWR/VSP*ACSTFQLEP
8869	39237	A	8928	3	313	AQRGGI*RGSLATAGLRSFGGL HPIRTSQQFCL\PVRGKPPTQAS VMVDAPHSTKLKHLRSISDCCT GSKNFKPVDLSLLGSMGVGSTE LDHLAPWLQAPFPGE
8870	39238	A	8929	13	453	
8871	39239	A	8930	380	966	LRHAVLLTEGF/SYKPHAFALG FVEAPRGEDVHWSMLGDNQKL FRWRCRAATYANWPVLR YML RGNTVSDAPLIIGSLDPCYSCTD RVTLVDVRKRQSKTVPYKEIER YGIDRNRSLNRS LYPREVPSTT LQPLRTPRCPGKNLALAVNVST GTNGQKPESCGPGRCRMKKGE YKRTISGGRTIIRVHIARLLRTF

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8872	39240	A	8931	1415	2085	SQVPICQRSTSCRVKRLFWSKM AYRSALVTPWRVFRRNPVPR TSPVVFTGGDVFSRVMVRVKE T/FDSLAMLEFALDNMPDTPLL TEGFSYKPHAFALGFVEAPRGE DVHWSMLGDNQKLFRWRCRA ATYANWPVLRVYMLRGNTVSD APLIIGSLDPCYSCTDRVTLMP QCIACGACACACAPANALTIQTD DQQNSRTWQLYLGRCIYCPSS NNNGPVISFN
8873	39241	A	8932	1	1127	MKKRKTVKKRYVTALVIVIA LMTLWRIRNAPVPTYQTLIVRP GDLQHSVLPAGKLARTSKNFA Q\FIRVRYSAFSLAGEKKR**P RVHGVQNASSGRYRGTCRLG SDSRKKLVEIL\LATPNMEQRT QGIGILDPQIARDLRFDHPYAEY DNIPK\TLFTFTAADVFSRVMVR VKETFDLAMEFALDNMPDT PLLTEGFSYKPHAFALGFVEAP RGEDVHWSMLGDNQKLFRWR CRAATYANWPVLRVYMLRGNT VSDAPLIIGSLDPCYSCTDRVTL VDVRKRQSKTVPYKEIERYGID RNRSPNRRCTGEGWTRAWITL PLLIKPLTPLMIASFANFNFFV LIQLLTNGGPDRLGTTTPAGYT

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8874	39242	A	8933	1	2466	MLRGVNVLADAVKVTLGPKG RNVVLDKSFGAPTITKDGVSVA REIELEDKFENMGAQMVKEVA SKANDAAGDGTATTATVLAQAII TEGLKAVAAGMNPMDLKRAS RSRKGYPARIRQELNQGKISR EATEKAMRECDIDWCALARDQ ATRKYGEP LPTVFSEKSRKLI GVKRAFT HQAVNAGFCTQPAV SVIAGDFDRHGFNTRHFTFRLF DDFSFETTRFCPAQIHTLKHARP VLCFRTARPRLNIEVAVGAVIF AREHTAELKLRQFFQGA PQKA VISIPVVPQVTGVVIEVTDKKNT LIKKG E V L F R L D P T R Y Q A R V D R LMADIVTA E H K Q R A L G A E L D E MAANTQQAKATRD K F A K E Y Q RYARGSQAKVNPFSERDIDVAR QNYLAQEASVKSSAAEQKQIQS QLDSLVLGEHSQIASLKAQLAE AKYNLEQTIVRAPSDGYVTQVL IRPGTYAASLPLRPVMVFIRSET SLRTHCPGHADYVKNMITGAA QMDGAILVVAATDGPMPQTRE HILLGRQVGVPYIIVFLNKCDM VDDEELLELVEME VRELLSQY DFPGDDTPIVRGSALKALEGDA EWEAKILEL/RWLP GFLYSGTR ACD*QAVPAADRRR/SSPSPVV VPLL PVV*NAVSSKL VKKLK R WYPRDSEVYLYWR*NVPPTAG RRPCW*ERRCSAAWYQT*RNR

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8875	39243	A	8934	1475	2904	FWRAAAPIPCWRSRGAVKKQH VEVTQLDWTPPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLGTTNGQSNRKA EHYFLNGKLA AVRMDDEFKYHV LIQQPYAYTQSGYQGGFTGTV MQTAGSSVFNLTYTDPQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRRTATGFIFGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRCAIFLTVVFFPVLH KQAFDLISLLLQQPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLAVQWCGN LSTALRELYRVVRPKGVVAFTT LVQGSLELHQAWQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFDDALSAMRSLKGIG ATHLHEGRDPRILTRS QLRLQ LAWPQQQGRYPLTYHLFLGVI
8876	39244	A	8935	1	920	MARADTVSVPMFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDAC\LSNAILVHNKKGGP LADGIVITPSHNPPEDGGIKYNP PNGGPADTNVTKVVEDRANAL LADGLKGVKRISLDESDGIRSK NDVIDTSDDDM**QCLSRRSN\ GHPGAKVANLVPKTTFIDGVD QTSFFLGTTNGQSNRKA EHYFLN GKLA AVRMDDEFKYHVLIQQPY AYTQSGYQGGFTGTVMQTAGS SVFNLTYTDPQESDSIGVRHIPM GVPLQTEMHAYMEILKKYPPR
8877	39245	A	8936	471	668	
8878	39246	A	8937	1	1233	
8879	39247	C	8938	1	1548	
8880	39248	A	8939	1	1260	
8881	39249	A	8940	1	1468	
8882	39250	A	8941	261	596	RSESCCGHEPDGPETRQP*PQR LWTCAYSPGTESERYFPRSDRK SDA*M*HRLVRTGARS GDAKI WRTFANCLFRKIKKTYRRSQTG FYAPGGERRFLYAASRKNRRR F

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8883	39251	A	8942	2	1356	CLPGLKLVRLLYRLEERNARRT SAAVDAT*RAGAWLAQCGLTV EQLARIQVD\PDMTTRAHLYHC DHRGLPLALISEDGNTAWSAEY DEWGNQLNEENPHHVYQPYRL PGQQHDEESGLYNNRHRYYDP LQGRYITQDPMGLKGGWNLYQ YPLNPLQQIDPMGLLQTWDDA RSGALTWYGV/DGDRLLTIQND RSRIQTIYQPGSFTPLIRVETATG ELAKTQRRSLADALQQSGGED GGSVVFPPLVQMLDRLESEIL ADRKRAATTWSHNHYANKKE GIKATGYRLAQT LGFKCEESSV FRVTRKSHSSFVWLDKAVTPHP TSNVRAGCLMRRWRVLSGLHR CEVLHPHTPHPAYHAGCGVSL QRNIRHFFLNGLRFQLRFRRTIC CLRLVVVQPQHFAAGVLQLAFC CRYITVQLASIRRNDRFQRSPLPL RAGNTIAKYFFQQIQHNRRGG
8884	39252	B	8943	1	1159	
8885	39253	A	8944	1	1304	MAETQQQFKKRMAASGLETRF DEVGNLYGRLNGTEYPQEVVL SGSHIDTVVNGGNLDGQFGAL AAWLAI DWLKTQYGAPLRTVE VVAMAE EGS RFPYVFWGSKN IFGLANPDDVRNICDAKGNS/IC RCDEGLRIYSSERPTNS/VVRIL KPLLNCILNRA/DVLERITAWD KPDCH\TLHHHADLSGHFP EEIG PLLFAGFSSAWQNGPSAFSWQK HGSAQTSSIAVLHRTPRHAGCL AQCDFTRAFFQIMLKNYLRKK RWKKKIHFNPASGKSS/RAIPEG YVTYGDVAKLGGIAPGRAPG GR/VQRQALLAEGAGTAEDGFT *VGEVEDAARDGP*TDAERTG* TYADAGRQDPQSAEDRQRANL HGNADR***RFASGGFHRGYHP RAAAGFCDHRKPACGNARRAG WPDRA*SKSSAYAFRYRYEHL HAGRSG

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8886	39254	A	8945	1	1695	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDATAIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSR ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLIKADDRALATDEHF YRQVIGEAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNIKRKIC LLHELFPVHPVCAVSVRLHPV VALLQQFRDTERTHRYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGWDGDR TTIQNDRSRIQTIYQPGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVVFPPVLVQMLD RLESEILADRVSEESRRWLASC GLTVEQMQRNMDP\TEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPGQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFIYQYPLNPISDIDPLGLSMWE
8887	39255	A	8946	605	1395	SMSLLKNIRLSSASKQCAACSG WPAAAGIRGVSGGQG*ARVSS ANTATALSSRLLPGQNSVTVP A*RMNCVLRVTPL\SKNRGGKP APSGTEGKGLPEVQPGQL\RAH GLPVSENLEQDFYASGPNQK WAGDITYLRTDEGWLYLAVVI DLWSRAVIGWSMSPRMTAQLA AGCPKPLWGTPSFGPACGLAP SSAGVLPGRFVPAVWLDSEDP EYVGSSDFLTQMMSMKKVDLK KNRAATDADGQFSRCCMPEK YAGSHN
8888	39256	A	8947	1	1914	
8889	39257	A	8948	1	4767	
8890	39258	B	8949	1	2294	

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8891	39259	A	8950	115	3551	NPALTRIVPAQQNLYTNTLLAA RIKQRLTEQFELMLRQAQIDFA GKAHSLTEAQANTTQVSAERD RLFKNYQRYLKGSQA AVNPFS ERDIDDARQNFLAQDALAQIQS QLDSL VNGEQSQIVSLKAQLAE AKYNLEQTIVRAPSNQYVTQVL IRPGTYAASLPLRPVMVFIPDQK RQIVAQFRQNSLLRLAPGDDAE VVFNALPGKVFSGLAAISPAV PGGAYQSTGTLQTLNTAPGSDG VIATIELDEHTDLS
8892	39260	A	8951	845	1213	DKGEIGGWAAQTHRGSHEQGA RRVPEDRDARARRKNEEP AAR PRTTNRNGSRKGPERK/WADG RGHKA EAGRRKRRKRQ*KEEM RKIRQQESGGEKKRGLCGRPPG GGNNCMEGRERRGRKR
8893	39261	A	8952	843	1061	NRPPVCACHRQVVL PVPVNR APA EK WQVPRVTL PGRQSTSW FAAVVYRN*YQYCALTAQRGR RSPRQLPHR
8894	39262	A	8953	1	682	MIRIPGCEDKLGADQQPAFVLY LEIDPHQVDVNVHPAKHEVRF HQSRLVHDFIYQGVLSVLQQQL ETPLPLDDEPQPAPRSIPENRVA AGRNHFAEPAAREPVAPRYTPA PASGSRPAAPWPNAQPGYQKQ QGEVYRQLLQTPAPMQKLKAP EPQEPALAANSQSFGRLTIVH SDCALLERDGNISLLSLPITGIW CSD*H**PMIPRLLIPASVRSSM VESAK
8895	39263	A	8954	1	1887	
8896	39264	A	8955	189	552	LFRGEKGARNEVLATRYRQT VSGDFRHLHCLADQYALGGAY QF*AGLY*LHQAWEMNRGLQL LSDALGEQYAQHGWNWRFLRNN DRFVFQILRSFEHDNSEDKPGP GMPPHGWRTQFWGG

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8897	39265	A	8956	263	3549	TGGPSSPSSHWKTPVVIYWDGT ALRCVFPVPLGETGAQRKRISA RKGSLLTSCPQGALSEHCPTTP APLPSQRRNHWMENISPFERSVG VSASRCSES*MRPWNSRMPRLG RSQGDSSSAL/MSTGVAFRGRF LKGGLPQAPAVAAATPWLTCTQ GVAGETTPAVNVKYNVRVRVS EYISMHVHREVTARNVYVTQT RRPMTTFPTLAWETPHYHRRY GVSLSSAWVQVGPPRYCRQT NALSNLPNFNKSGADTQ
8898	39266	A	8957	1	1799	MMRDRLINHAIIRPACE*QLGA DQQPAFVLYLEIDPHQVDNV HPAKHEVRFHQSRLVHDFIYQG VLSVLQQQLETPLPLDDEPQPA PRSIPENRVAAGRNFHAEPAAR EPVAPRYTPAPASGSRPAAPWP NAQPGYQKQQGEVYRQLLQTP APMQKLKAPEPQEPALAANSQ SFGRVLTIVHSDCALLERDGNIS LLSLPVAERWLRQAQLTPGEAP VCAQPLLIPLRLKVSAAEKSALE KAQSALAEELGMVNSTRFSLHE HPDAERSPGQSGEQRQQPAVD DYAIVDEYGRHYRRAVAGTLL HVSVDSGTTQTVMYTWLSMA LIHALPAFIFARVPNDTHQNVAS RRKTESRNEVLATRYHRQTVS GDFRHLHCLADQYALGAPIPPD GTRRPILVNGAEVGVAVIASPVE RLTRNTDINFDKQQRQTSWLIV ALATLLAALATFLLARGLLAPV KRLVDGTHKLAAGDFTTRVTP TSEDELGKLAQDFNQRASTLEK NQTPITSRGHPRIFLARHPAPAP TTLTSLALKIIRSPAFLPDTASEC AMAIDCYILAASTQAYKAASSL SLSVVLATSARFKTSSTSIWVKS SSTNSCE
8899	39267	A	8958	1348	2190	
8900	39268	B	8959	1	105	
8901	39269	A	8960	1	781	
8902	39270	B	8961	1	1716	
8903	39271	A	8962	754	807	
8904	39272	A	8963	821	875	FFSLFFFISLASGLSIL*W*FVFL WDRW*YPLYHFLHLFDSSLFS SLLVLLVVYQFC

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8905	39273	A	8964	1	315	SGSVMPPALFFWLRLDLAMQAL FWFHMNFKVVFSNSVKKVIGS LMGTALNL*ITLGSMIAFTILILP YP*AWNVLFPVCVLFYFLEQW FVVLLEEVLHIPCKLDS
8906	39274	A	8965	42	403	GLCSVPLVYISVLVAVPKLFW* L*PCSIV*SQVA/SIPPALFFWLRI DLAMWALFWFHANFKEVFSNS VEKVIGSLMGMALNL*MTLGN MAVFTILILPTHEHGMFFHLFVS SFISLSSGL
8907	39275	B	8966	179	1225	
8908	39276	A	8967	342	407	
8909	39277	B	8968	143	3122	
8910	39278	A	8969	692	1360	MCGIIEGSLFHCSTLFWYQS HAVLVTVAL*YFLKSGGLMPP ALFFWLRLDLGMLALLWFHMN LKVVFSNSLNKVIGSLMVMAL NL*ITLGSMIAFTILILPIHEHGM FFHSFVSSFISLSSGL*FSLKRTF TSLVSWIPGYFIFFVAIVNGSSL MIWLSVCLLLVYKNACDFCTLI LYPETLLKLLICIRRFWAETMGF SRDTIMSSANRDNLTSFNP
8911	39279	A	8970	2116	2418	FFSLFFFISLASGLSIL*W*FVFL WDQW*YPLYHFLHLFDSSLFS SLLVLLVVY/PILLIFS KIKNKKP APGFIDFFEGFFVSLSPSVLL*S* LFLAFC*LLNVFALASLVLLIVM LGCQF*IFPAFSCGHLVL*ISLYT
8912	39280	A	8971	1	558	LYKNSVKYFHN*PVG NIMSNIP VGALFSGPAFGIGILAAGVILAI MIIPYIAAVMRDVF EQTPVMM KESAYGIGCTTWEVIWRIVLPF TKNGVIGGIMLGLGRALGETM AVTFIIGNTYQLDSASLYMPGN SITSALANEFAEAEGLHVAAL MELGLILFVITFIVLAASKFMIM RLAKNEGAR
8913	39281	A	8972	1879	3735	
8914	39282	A	8973	16	452	VGQLFWKGYPLAGFPDPCAQS WKVAHVLLRLRLGHIKSVSANG KEVTSKFHRKENLARGLHSRPR RGQVRGGVAQHCEPR*TPPPA CRVRLPGCPVDPASPGRGRRTS AGTPEPALRHPHTPRGPVAART LPAEPGPAPPSGLPP

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8915	39283	A	8974	158	531	CSLRRGPPDP/PGAYCKRRATG AASTRSLSGAVAGSPAHRCE PLQAMGA\GGLPHPEGGRGGSG GRKRTDGPVCGCGERAPREYP DPSRSWRGPQRKPAPSQHPCLP RLSRGPGRHPEGPHQVR
8916	39284	B	8975	22	387	
8917	39285	A	8976	241	389	VASQAPGVRALQVGAHSC*G RGHVSWPWPWPWGPPCCPLCL LNGLPNI
8918	39286	A	8977	1620	1936	TLFFFESESHSVTQDRVQWYDL \NSLQPPPPGLK*FSCLSLPSSWD YRRPPPCPANFF\FLVELEFHHV GQDGLELLTSGDPPALASQSAR ITGMSHCAQQNKHIL
8919	39287	A	8978	3	105	
8920	39288	A	8979	1	1821	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVGPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIQMPLREQRYTGI DEGDHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPAALIDLL QTIIQTHNPTWADCHQLLMFLF NTDERRRVLQAATKWLGEHAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPDPSPENQRM NMAVSQSAEDIRRLQKQAG FAGMNTSQLLEIANQVFVNRD AVSHTGAHSSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDFAFFSIRLAPERQK LFAFQWEDPESGVTTQYTW LPQGFKNSPTIFGEALARDLQK FPTRDLGCVLLQYVDDLLGHP TAVGCAKRTDALLRHLEDCGY KVSKKK\AQICQQQVRYLGFTI RRGV\RLGSEKQVICNLPEPKT
8921	39289	B	8980	209	2272	
8922	39290	B	8981	1	228	
8923	39291	C	8982	375	472	
8924	39292	C	8983	266	408	
8925	39293	A	8984	1	1105	

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8926	39294	A	8985	108	708	LTNQKKSRTRRIHSRILPEVQGG AAADRHCPIDRLGSLQDHHRRS RLLSQWSP*KSTHD*HGFSYQS AEDIRRLQQQAEFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KRQGGKGGPGKETQPGCQSLQR NQCAYCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
8927	39295	A	8986	125	444	DCLAVKRASWVQPTGYSCPL L/QGVLTYYRRQAAPPLRRER LASSSRDKPKCAGKHTSSLVRA GDMQGTIVTGTEVLRLDMEPK FEDDQLRPVLLHKKVPRREMA
8928	39296	C	8987	80	325	
8929	39297	A	8988	566	1857	
8930	39298	A	8989	1	1037	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRGQESLEKLL GRYFYISPLSALAKTVRQRDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWWVLGLTDFKN EAKELRLYKQEKREKAKRWKE TEKGFNGDYGVMTPTGKWRT YFEIDWSKLEVGWPSEGNLERS LVSKVWHKVTGKSGHSDQFPY IATWLQLVLDPPQWLRGQAAA VLVAKGQIPRKDPTPPAEGNQ LLK/SLFDPTSSEDPLQEME/PSDP SGALPLPGKDAPHS*AHSPCAS TRQTYP*ATRSRQERR*SLERNP YIGSSFKTQNWDTNAPERAVV
8931	39299	B	8990	1	2082	
8932	39300	A	8991	6	367	ENLNIAKPHAVVTLMTTTGPD WISNAILTKDFCLLCENTHISRW GCNTLNATTLVSESPVKHNC LEVLDVYSSRPNLRDHP*TSV DWELYVDGSGFANPCKVTLKK ETSPAPVTPRS

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8933	39301	A	8992	1	2991	MLKNFKKGFNGDYGVTMTPG KLRTLCEIDWPTLEVGVWPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTG IQMSLREQRYTGI DEDGHMAERRVFVCQPPTSAD LLNWKNNTPSCTEKPQALIDLL QTIIQTHNPTWADCHQLL
8934	39302	A	8993	1	444	SSASTPETRAKFT*DNLCASW QRLASANFRVLVDCILSDTFED LRLQCDVNLAFGRRC EELED ARYKLHHHLHKAVE*GGGA EH VPHRLREKLLEAEQSLRNLEDI HMSLEKDIAAMTNSLFIDRQKC MAHRTRYPTILQLAGYQ
8935	39303	A	8994	1	1576	MVQTDVLLPEPAPQTVSPCELP CKEYDVARNMGPGRHQLEVW FQNCYARYHQAFADCNQSERE LQGRESQQLAAETQALAQPTQ QDSTCRVGERLQDTHSWKSEL QHEVEVLAAETDLLLAQKQRL ERALDAMEVPFSIATDNMQCS QRHQHANLVRDYVETELLKAY PPAPSQCLKNCCSSRKPSACNK GACEVMETLTVQEEANPGTEG CRTRALAHKEEA EPIRNIQELLK RAIVQAVSQIQLNREHTEICEM DWLDKVEAYNLDETCGRHHSQ STERP/WTKFTQDNL CRAQRKR LASSANLWVLVDCILRDTSEDL GLQCDVNLAFGRRC EELEDA RHKLQHHLHKMLREITDQEHN VVALKEAIKDKKEPLHIAQTRL YLPSHVRPNMQLCREAAQFRAA FPG*ESFQWRLPRTSLPAPNWE FWVPFHPSRCILLPSPAPAHTPP TPPSW*VRWRSLYKSITALREK LLQAEQSLRNLDIHM SLEKDV TAMTNSVFIDRQKCM AHRTCY PTILQLAGYQ
8936	39304	C	8995	99	442	

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8937	39305	A	8996	177	622	TESSASEKTTGEDGTRVFVSL RSLLSLLPSAPLRHHPPSA*LSL CSCVSD*AVALIPQSAHHFPNIS *PFPLHCFHAHAKPPVWIFHSH/S LWLP*AFLAPMTSFTDQVAVD DFLSIVYLFTFTPFLAFCGEPST ALATREQVWVESAS
8938	39306	A	8997	1	329	AAARPGRGSETGDWVLLCYPG WSAVV*S*LTTA/SELLGSRG*G SLLSLPSSWDYRLSAPCLANSK KPSE*GLSMLP*LVSNSWPQVI LLLGPPKALGLQAPGTMGLRP
8939	39307	A	8998	1	814	
8940	39308	A	8999	57	274	TASSSLTLVYGHRLCWLGPSP *PSLWLP
8941	39309	A	9000	1	1236	
8942	39310	A	9001	1	1095	
8943	39311	A	9002	1	2313	
8944	39312	A	9003	166	494	FSQQLCGENHPLRTENTQAQR AGVPLGVRILSRPGFP*LSTHSC FSCPLV*PPSQGQPGPLSLWTL SAIQAPAELESCRSSCDRDGRSH WPRVSGGLWLSQVPRPRR
8945	39313	A	9004	3	974	MGESPAV*GYFVLAMNSAGL SFGGGAGKYLAEWMVHGYPSE NVWELDLKRFGALQSSRTFLR HRVMEVMPLMYDLKVPRWAF KTVSQLRTSLLYDRDLAQEAR WMEKHGFERPKYFVPPDKDLL ALEQSKTFYKPDWFDIV\ESEV KCCCK\EA\VCVIDMSSF\TKFEITS TGD\QALEVLQYLF\NDLDVPV GHIV\HTGMLNEGGGYENDCSI ARLNKRSFFMISPTDQQVH\CW AWLKKH\MPKDSNLLLEDVTW KYTGTVRALYGDVEHESWLS CVRHAHHPDPICIAHTYLHLRS FSQADGREWRKVLDKHKIFLF ARSLC
8946	39314	A	9005	1	1872	
8947	39315	A	9006	1	2250	
8948	39316	A	9007	1	1257	
8949	39317	A	9008	1	1596	
8950	39318	A	9009	1	1584	
8951	39319	A	9010	1	1461	

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8952	39320	A	9011	110	993	TSTELSTPSQQNIHSSQHHIALV PKLTT*LERIKYLG IQLTRDVKD L FKQNYKPLL/NKIKEDTNKWK NIPCSWTGRINIVKMAILPKVIY RSSAIPKLPMTVFTELEKSTLK FIWNQKRAHIAKTILSQKNKTG GIMLLDFKLYYKATVTKTAWY WYQNRDIDQWNRTEPSEIIPHC NHLIFDKPDKNRKWKDLSLFN KWCRENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRSTIKTIE ENLGNTIQDIVMGKDFMAKTP KTMATEAKIDKWDLIKLRASA QQKKLPSE
8953	39321	A	9012	1	1185	
8954	39322	A	9013	1	185	
8955	39323	A	9014	2	1321	
8956	39324	A	9015	2	1757	
8957	39325	A	9016	1	1008	
8958	39326	A	9017	1	1311	
8959	39327	A	9018	1	1152	
8960	39328	A	9019	1	526	MPSLTTPIQHSVGSSGRAIRQEK EIKGIQLGREEVKLSLFADDMIV YLENPIISAQNLLKLISNFSKVSR YKIN VQKSQAFLYTNNRQTESQ IMSELPFTIA\KRIKYLGIQLTRD VKDLFKENYKPLL/NKIKEDTNK WKNIPCSWVGRINIVKMATLPK MTWIANWLRNSLQAQ
8961	39329	B	9020	1	1626	
8962	39330	A	9021	1	2361	
8963	39331	A	9022	1	1140	
8964	39332	A	9023	1	2112	
8965	39333	B	9024	1	1065	
8966	39334	A	9025	1	1416	

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8967	39335	A	9026	1	1690	MPMVEELYGNYGIMADTTERV GQHKDAYQVILDGVKGGTKEK RLAAQFILKFFKHFTELADSAIN AHLQTVSGRQQLVKLVAEQAD LEQTFNPSPCEVGRLLQCTQQ AVPFFSKTVHSTRSVTYFCEQV LPNLGILTAVEGLDIQLEVCLKL LVEMSSFCGDMEKLETNLGKL FDKLLEYMPLPPEEAENGGNA GDEEPLKQFSYVECLLYSFHQL GQKLPDFLTAKLNAEKLKDFKI RLQYFARGLQVYIRQLHLALQ VKQCFAYMEKENGIDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLGDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMGKLPFTIA/S/KRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVGRINIV KMAILPKNWKKLL
8968	39336	A	9027	1	1575	
8969	39337	A	9028	1	2682	
8970	39338	B	9029	1	2088	
8971	39339	A	9030	1	2406	
8972	39340	A	9031	1049	1500	
8973	39341	A	9032	1	4341	
8974	39342	A	9033	103	366	NHPQLKVAGLKNCCVCMCV CVC\CVCVRVWIWVCVCVCVC VCVCVC\CVCVC\CVCICVCI*V WVCVCVCLCLSLPKCWDYRHE PQRPA
8975	39343	A	9034	232	735	YLSGNGGEKGFCHALPDHRLR VLHQHPPHACVETDVTDLGITS ISLADVRVCVCMCVVCVCVCV RVWIWVCVCVCVCVCVCVCVC VCVC\CVCICVCI*VWVCVCVC\ CVCVCVCIC\CVCVCVCVCVC\ CICVCI*VCVCVYVCVCVCLCT VLGIHSFLTARNAHQPIGH
8976	39344	A	9035	163	795	

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8977	39345	A	9036	34	758	RVPHRHGMKRVQRHGMKRV PHRHEMKRVPHRHGMKRVPHR HGRKRVPHRHGRKRVPHRHGR KRVPAQVQDEEGHCQKPGRCV CMCVVCVCVCVVRVWIWVCVC VCVCVCVCVCVCVCVCVCIC VCI*VWVCVCVCVCVCVCVCIC\ CVCVCVCVCVCVCVCVCVCIC\ VYVCVCVCCLCLFYLVLCFCICS/ CIISGGQRWC*RKTMCSLPFAH SHHSFPGHFFLIFQSRSFQVSFHP
8978	39346	B	9037	34	156	
8979	39347	A	9038	3	419	GGENVKAINQQTGAFVEISRQL/ PPN/GDPNFKLFIRG\SPE\QIDH AKQLIEEKIEVGWGGWGFGL TARIPAHLPWLLSFLLG\PLCTV G\PGPGGGPGAGPMGPFNPGPF NQGPPGAPPQ*VSSASWVLRP/E GLLSWQEE*QTPFPFP*KCRAG ALIAHFHCGYHQQALSCL/PGR ACAFQHPSVHVQVSRLLSCPQA DAARPSSCFLSRPFGAPLSLVV WVSGASPLKNIPTPGGPAA\PPP HHCSSIPFFSPA\PGGPLLTSTH PRAGAIPTPSGS/QPAPHDSPK* WALQPGATRGSPVTSILCLLGF EAGGLLSWQEE
8980	39348	A	9039	1	445	ATADPNAAWADDY\SHYYQQP PG\PVPCPAPAPAAPPAQGEPPQ PPPTGQSDYTEWAWEEYYKKI GQQPQQPGAPPQQDYTKAWE\ EYYKKQAQVA\TGGG\PGAPP SQPDYS\AAWAEYYRQQAAYY GQTPGP\GGPQQPPTQQ\GQQQA

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8981	39349	A	9040	38	1297	TCVSALSVLASDDGTGPEKIAHI MGPPDRCEHAARIINDLLQSLR VGGPGC*RGWQGLQGSARPDR LPGFIILLLLLSRVVPQGPAGG PGMPPGGRRPKEEGQGN\WGSP WAGKMTFSIPTHKCGLVIGRGG ENVKAINQ\QRGA\VEICRQLPP N\GTANFKLFII\RGSP\QQIDHA KQLNE\KMKGPLCPVGP GPGG PGP\AGPMGPFNPG\PF\NQGPPG APPHAKK\PPPHQYPPQGCNT YPQWQQHAPHDPSISAGKAAA AAADPNAAW\AAYYSHYYQQP PGPVP/GPAPAPAAPPAQGGQP Q/QPGAPPQQDYTKAWEEY/YK KQAQV/ATG/GGPGAPPGSQPD YS/AAWAEYYRQQAAYYGQ/T PGPGGPQPPPTQQGQQQWVA PETPSPRGVPLMPAAGAVWPE VPGVPVTHRQGSIRWVQR
8982	39350	A	9041	1	1777	MPVLPVTATEIRQYLRGHGIPF QDGHSCRLALSPFAESSQLKGQ TGVTTSFSLFIDKTTGHFLCMTS LAEGSWEDFQASVEGRGDGAR EGFLLSKAPEFEDSEEVRIWN RAIPLWELPDQEEVQLADTMFG LTKVTD DTLKRFSVRYLRPARS LVFPWFSPGGSGLRGLKLEAK CQGDGVSYEETTIPRPSAYHNL FGLPLISRRDAEVVLT SRELDL ALNQSTGLPTLTLPRGTTCLPPA LLPYLEQFRRIVFWLGDDLRSW EAAKLFARKLNPKRCFLVRPGD QQPRPLEALNGGFNLSRILRTA LPAWHKSIVSFRQLREEVLGEL SNVEQAAGLRWSRFPDLNRILK GHRKGELTVFTGPTGSGKTTFIS EYALDLCSQGVNTLWGSFEISN VRLARVMLTQFAEGRLEDQLD KYDHWADR FEDLPLYFMTFHG QQNIRTVIGTMNHAVYVYDIC HVIIDNLQFMMGHEQLSTDRIA AQDYIIGVFRKFATDNNCHVTL VIHPRKEDDDKELQTASIFGSA KGGEWSAPHSTSSRPSAQPKSD STVAEAAPLASDFTAYWIWFLT WGRGRASRDREFGYLAALN

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8983	39351	A	9042	3	679	SPLIVSSARMHAGRDLPYFMT FHGQQSIRTVIDTMQHA\VYGVY DICHVIIDNLQFMMGHEQLSTD RIAAQDYIIGVFRKFATDNNCH VTLVIHPRKEDDDKELQTASIF GLSQRQAR\EADNVLDPA GTGK LGNRGQGKRYFAGVPKEPF*W EM*GVFPLEFNKNSLTFSIPPKN KARLKKIKDDTGPVAKKPSSGK KGATTQNSEICSGQAPTDPQPD TSKRSK
8984	39352	A	9043	90	317	GTLRKRYRAFHCRTIFKALTEV CKNFSALHCEFSWGGFFFCSSFF LASS*G*NCLPSQPQPCWFLQPP CPWQIL
8985	39353	A	9044	2	2136	PRLSSVLSEFITTHIYFLLSETTY NYEWNLISLYVVDPSRLAC*TV QLFFMLQLSVGLYVFNVGNDIC LHKMGSVTVLFFVTARRVNLPP VAVIKLMSSSSCISFLSLFLNLV ESTDDTEIVSYHWEEINGPFIEE KTYLCFFTFLCFVFIFVFAIT*G VQTPYLHLSAMQEGDYTFQLT GLQT*CKEILFHTVSVIPENNRP PVAVAGPDKELIFPVESATCLS YSKPHAPSLMLTTSMFYRGPSA VEMENIDKAIATVTGLQVGTY HFRFYSITGVNLQSLCFHFAIFD LENNSPPRARAGGRHVLVLPN NSITLDGSRSKKPRNWDPRIDSC PVIRVLSQDVIDGSDHSVALQL TNLVEGVYTFHFLML*SLCKCP SANPVSSSPDPRKSGLVELTLQ VGVGQLTEQRKDTLVRQLAVG VSW*SPSDHVAVLHCLLHSTV IVFYVQSRPPFKVLKAAEVARN LHIS*SRDSLFCMLPSALHTS/S AGCLKCSGHHGCDPLTKRCI* K*SWSTNSL*LCPLWFSCVSEW SIFYVTVLKS*LSVTFLKI*VELF IVPFRQRTKIRKKTLMY*VH LKYFTH*ILILPIAVRGMCDNDYP HD*QLEVNHGVPQMLLCFSLG IKHRSTEHNSSLMVSESVRSD RDCLQSLNYLLSGLLQKEKNLQ KAGLTSPAPSLWEDKCSGRTEH AQ SARLPLKEDTEKTLMQF
8986	39354	A	9045	47	157	FDKICIFKRQVTKSEVILNLTN* VL*YLEYHIRNIN
8987	39355	A	9046	1	393	
8988	39356	C	9047	274	357	

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8989	39357	A	9048	727	1089	
8990	39358	A	9049	175	608	CGWEYGN*ADTMDEQYCKVC QAYKAPRSHHCTKCNTCVMK MDHHCPWINNCCGYQNHASFT LILLAPLGCIAAFIVMTMYT QLYSFGMENNFFRKQNFYLSS WDWKEEGLKDPDFSHQLGWK SFVFFHMDMGEVDGEGTF
8991	39359	B	9050	780	1166	
8992	39360	A	9051	3	681	HIRGPRYSGHSAFGCPYSDMN LKKEATLHDLRLREQTQANLES DSSHKSLSLCSLNFNGKHEKV NSQPRLVQAKCLKIKGKEDID LDNLFREYSVEQAQQVLHQSV SMSTVSAHPFRDLPLGREQHCK LLPGVADIRASQVARWTVDEV AEFVQSLGCEEHAKCFKKEQI DGKAFLLLTQTDIVKVMKIKLG PALKIYNSILMFRHSQELPEEDI ASGQEVGR
8993	39361	A	9052	30	981	TQDPWPSLPVLWSRASSDPAAG HRAEHI*TYWPWKLEGTDIWL VLYMPLVQPDNFIKKHSHLPTY CLFKEDVKFPFRTCRLTYCWLN YTEEITYLHTKKVSVGQSAVRE EFAAACTWSIRIGEKLAILLSLY LCRQQALLNMRMSVPIHESGV AQRSPVMDKLAQYSVEQAQQV LHQSVMSTVSAHPFRDLPLGR EQHCKLLPGVADIRARQVARW TVDENLHGLIQTQTPHLDSEIS KGESPALVVTCLRMCMATTEP LVPTKNPYQERGHIGDSFLHYT DQEPQPWDQSSVHPTAPIYSV SSGFRVTRGSDI
8994	39362	A	9053	1	864	MVSALPEVGRAQILRLIAYIRSP APPVVGVERAARRPAQAFGLV ALPSTDATVFANQPLARACIGA ARHREPDAPGQSAWVGEECLK DALRSPETPKLGSLSPPCQDTRP GRASNDFSLEMGYSSLSAARLK IHGQVFQCCGPGPLRLAHWTQ S*TYLNILALET*GAQNQP*EW QAVD*GAPGLFSHTLGVFPR/RL PQHHPKQIICFQNYEYSVEQAQQ VLHQSVMSTVSAHPFRDLPLG REQHCKLLPGVADIRASQVAR WTVDEPYSSAPRGPELSAGANS SRGA

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8995	39363	A	9054	1	1737	MKEKPAVEVRLDKWLWAARF YKTRALAREMIEGGKVHYNGQ RSKPSKIVELNATLTLRQGNDE RTVIVKAITEQRRPASEAALLYE ETAESVEKREKMALAQMIMPQ HDQLHRYLFENFAVRGELVTV SETLQQILENHDYPQPVKNVLA ELLVATSLLTATLKFDGDITVQ LQGDGPMNLAVINEINERAQNP LLCAFRVCNTYGSYECKCPVG YVLREDRRMCKAVFPYCQNES SDVLWQFDSTSQIFLKGTPTT VRRGGEHNLKNPDECDNPNIC DGGQCAGIPGRNRCLCYDGFM ASEDMKTCVDIDECSLPNICVF GTCHNLPGLFRCECEIGYELDR SGGNCTEDPDHKSRSGRSQND WGRRRKT/S*KRSVYR*RQLY IRRQPYAERPSLR*RQRP*IPCIR SQHG NRKMRRRRIFI/STKRTT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR*SLQTR*LMKSSARVFSK*TA NGTWSL/HSRGSKVTIDGINSND IYMLGYVSNSLTGPYRPVDKTG LGLEMGLDPNDVTLTYSHFRVP EAEAAMWVSHAT

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8996	39364	A	9055	1	1743	MTTSTMTHMMTMHFPIIVCAD SRDDVDVTNDVNDHDDSAKR KSHRERPIAAKRTETK/KRRRRA RPKR/RTKARS*SAK*QTAQHT RTTAAIIMRDTQARRV*RPTKH AAEQRQNTTGKQRR*TKRVKA AKKEGE*RRRKMARRTTPQTR R*TRAKRRINRPRHGAKKRA*N /RRLKSAPKRHRVNRDENART TTRHKRRNRNRVKRAERSGAE RTPYKQRHQQTREKRTCKRRQ TK/RRTKAK*T*RDHENDGTRA YNKTPKKA AKRTRNNLRHNA TKGGDNRGQTRRA*TKPRKYR PDENRYNTSSPERTPRKRRGKS E/RRDKTAQRAQ*ADRYNSRKT QQLR*KGHTHTER*RQARMHT RHAQNLDQTHSTRLCNA*ST/C HRRSSSTMCHRYDQLYSRSH ALTMIIIVNKPLRQCIRMLSFHD RHRSLAIDGDSASTGSPAFCV NTYGSYECKCPVGYVLREDRR MCKDCTEKAFFAGGCEVDKT HTVPQERAYIHRTRLGRARTKK RDLYRRAHNDRRRQKSAAYYE STSVRAHKNYNSGKSDTQNGS HHRQKLRYGDAGKSHYLQY NIHFMYPLFNT
8997	39365	A	9056	3	451	FFEMKSHSVAQAGVQCSGVILA HCNLHLLLESSDSPASAFRVAGII DARPHAWLIFVFLVETGFHHVG QAGLELLS*VIHPPWPPKVLRL QHETPCPAVSLYLNQSPENNLE EDSLAMSNRRRSKGPPIWQNP GFEILALSTFLVESDLK
8998	39366	A	9057	53	343	
8999	39367	A	9058	14	234	CLFIRIFNVICYSKTCKNSIC\IGV IEIVIDGCMCGGEDGGGGGGSV TAGGAPSPIETGSHGPPQPAVYF WRF

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9000	39368	A	9059	3	865	INFSVCVLARFFLGVVVLCVSC CWFRVCACVICALAFPCSCC VVVLCPPVGCRICTLFAV/CCCL/ CVCALFCGFLLRFLFCLCV/CPC S/CSARCRC/VCLALGAVVCFPP CSVVASCGCCDWVWLCCGAV VALVGLLCCVLVCAWSFRCG/C V/CLC/VCVVVVLVVRCC/VCW CGSCVVDCAVVLVCCLLVVI MMSL/CGCRVYSWYGVCWVCS VVCRRIDL/CPCCLCW/CVT*RG CWSVWCM/CTCCG/CVCGLAV MCWCRCVVRLVCLCAV*FIC ACVCFECAVGGFVGGCFLGSL
9001	39369	A	9060	1606	1849	QGVASLCREAGLTKISPGAPL WLPCSPGVTAECSGERTVRHN VTDRVCGVLGAVTSPGRN*RG HVTHKFCILCTDTRDC
9002	39370	A	9061	2	682	ALEAVFGKYGQIVEVHLMKDC ETNKSRGFAFITFERPADAKDA ARDMNGKSLDGKAIKVEQATK PSFESGRRGPPPPRSRGPPRVL RGGRGSGGTREPPSRGGHMD D/SGRDSYRGPPRRESLPSCR/D APPTRG/PPPSYGGSSRYDDYSS SRDGYGSRDSYSSSRSDLYSS GRDQVGRQERGLPPSMERGY PPRDSYSSSRGTPRGGGRGGS RSDRGGGRSRY
9003	39371	A	9062	90	443	NVVIQFIVLPYYLTIDPAGNSR SAPPTRGPPPSYGGSSRYDDYSS SRDGYG*SRDSYSSSRSDLYSS DRIVSTLFFVSLNWDGPKFCLF LVSASASPSIRSASSRASTSWCS AA
9004	39372	B	9063	12	1373	
9005	39373	A	9064	2	206	

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9006	39374	A	9065	2	1423	IHFREMASKSWLNFLTFLCGSAI GFLLCSQLFSILLGEKVDTPQNV LHNDPHARHSDDNGQNHLEGQ MNFNADSSQHKDENTDIAEKL EEKVRILCWVMTGPQ\NLEKKA KHVKATWAQRCNKVLFMSSEE NKDFPAVGLKTKEGRDQLYWK TIKAFQYVHEHYL*DADWFLK ADDDTYVILDNLRWLLSKYDP EPIYFGRRFKPYVKQGYMSGG AGYVLSKEALKRFVDAFKTDK CTHSSSIEDLALGRCEIMNVE AGDSRDTIGKGNFFHPFV\PEH HFNLKGYLPRTFWYWNYNYY PVEGGELRFLFSTVTIRHSKALS LGVAQCSWLLKQQVISDDKTK RPDFPDRSRIMKERVQIVLYES GQAPVESSPPLPGYCSALFATCF QVTGKNFSQDPTQAILYTQADK IEGWMRASGERVAEQQSGQTA MDGGKKEAEWKTRKAKYRD DVCSKHHPYPPTPVPPSLED
9007	39375	A	9066	1	311	
9008	39376	A	9067	1	493	ITRQHMRKAVPFQVPRKEILKL LKGGKVVVGHALHNDFFQALK*S TLGARPGDTTYVPNFLSEPLH TRARVSLKDLALQLLHKKIQVG QHGHSVEDATTAMELYRLVE VQWEQQEARS LWTCPEDREPD SSTDMEQYMEDQYWPDDL AH GSRGGAREAQDRRN
9009	39377	A	9068	45	365	NQAAASRP HCAARTMAGEEQA ACVHEDRTQCRGDKAAPQAAH LCGPPRGSGSVSTAPRAR*CPV CSSCPGPGAPEDTPEEVDVGAA SAHRSPRLCCSHLTHR WPKH

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9010	39378	A	9069	3	1687	ICVPKSVPSFLWAGRGPHCLLP CGSSSP*SGGLARA*GVFQGRA GVARAPSHLSFHNSPCVWSLST CCRAGSQDGPCPHAAGQGPGK QTSSGTGASSPWTSC*LSLPK VCS*GLETTIGRGRVKPIKVT TAQ*CAASVTAPLLSS*LQDGG STAKVTRCT/TAGGRAVYGTA GKAFPEAPELTCRS/ALAALGT WPLPPLQVSCGLRNPSDDLPSV VGSRASV*TKSGSSPAKVWPLA EWFKSGSAIPVTGQEAALLWA SDSSSELSLCPRKHAAPPHSAEH RQISQGLASSCWGAGGDKVVS ASMVGSAAGQCPMSALMTGSA SGQCPGHPCWSGTNADS*GRDP HRASRLALPTASYEQ*PQPHW GSWTAHGQNLGIFQRVSWF V*GQTMVSRPRISGLGQPVCLS AASPQAAPLGSHDPTPAGR*GL EPGGRQPSSS*IYVWEAPPGLW VPPGPFLSH*SWRFGRTKAAPL KEPRPGGRCPGDRPSRAEAGL PQTRKPALPAIGR/PKKACSLRR PRVILEQSSQHLAAALSSWMQP ALLETGCKAVFFTPGGL

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9011	39379	A	9070	66	1956	PLLAIPAHSTFPARKPEEPPRPD* LCPHIHCAAV*GEIRTVP/SKTV RGVATRTRPRSSSLGTTTGLR VSSVRRVQLSIKPGCSRVNENSS NSPCSSSQPGT\SVLPCPTVCRE AGP/AGP*PPG*ALSLPAAGFTT ATEWKQSQLSSGG*THSGEDM GRATAAATEKAQEQCMLREKL GTRQKAESGSRGA\AGLQHFCS APRTAWQPRASRA/RAGVRAW PCADPM*PPSHSPSFPKPFIPAA/ PGAQTLGAAGVEHVAGSARIPC CRTGLE/PHPHSPRRTLERQARI SGAGRRSSPNAATGARPRPAAG SPVSARRAPRRRPA*SSPCSGPW TAVSAPRSPGPRGGGRPPSPGR RRPCCSVFSGGASPSARVSSPS GSCSASPPAAPA\PGASGAVVA GPVVGSPREHGG*LRPPLPRLG VPGLLAARTSGAEVIHEQAAAQ GTAADTPGAPGLLLAPAAAGA V/TRPGPPGASGCPRPAPRPPTP ASRSGRP\VPGGGRGRRGGRGA GGEALQGAVVGGQVGGSGAL A/ATARGSPAAGVSRWTAPRCR HRRSDASASGTPARFPGAGRKG RTLWQ*SWSRAPPGLSELL*G LPRPLPESGRSKAPLPSGSTPLPS GRTPLPSGRSPSTRSPS
9012	39380	A	9071	95	1423	GLENKRAKGTEAHTRACP*GK STEQDTTWTNTGRNEQQGPRP KGEQTQRKTERKPRERQVQV LSSPPGRWC*DVGPLGGLPSRA KAEAAALTAAQKAQGRRGSPGS LPKSSPLPSAPGKR/TPPRGHLL VPLPSPIYPALLSQHPPQGPPCG ASAPPSALLQRAPPPGTRTLQR PPGPRVTCGTT/MAAKAKSQS NAPRGSLLKKSNSFYNIPLKQV SCLITISKHSRNEVSVYQTSRPR AAATDVPRT\PSLSVGCSWSCT RGHWPSSCCPTAPRGQGL*EHS QGPGSRSKLPWPTGPCGGLTPS CWSLAGSAGERVDLNQAAASR PHCAARTMAGKTLGGCGCVD VGAASAHRSRRLRCTTSPTDGP NTERGSRKTGWTPGPPGFWPCP RPPTSNTTTPLGLMDSARPGKA PAPFTDFRTPSGLLLPGWAVRA RREEDGCG

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9013	39381	A	9072	42	380	LGAPCTPPRSAPRTGRPEYA*ARG*PVGDLCRGPEAVVSTQVLLPRGLQ*NFAVLLLQMSCATPPPNCAKKGCV*VPLEQSPFFHQAVACREWKRKGKGMVCGGNASPQRTEA
9014	39382	B	9073	116	341	
9015	39383	B	9074	52	190	
9016	39384	B	9075	70	310	
9017	39385	A	9076	1349	2456	HCSVPGA EWPRKPPAQICPQLTSRPHLSSPRSLSPGCGHSPGPG*SPQPPVMSLHEGPPRG PQV/PSPVANPQPKPWLLRSVDLPVPWHLPTVDRTTSL/APSLQSDV/PAPSGAL*PSGRACSGV/PPID*APEAALSAAA PRPSLGSGQNASGLPAASLPPQDSSQPHKTVSPARSVPPLGAQARAAPPRLWCPHALVSG*EASPEAVSVAAGPPVPGPTPSTSGSTASHSRRGC*SPR*TPAPRRDHGRSAAFEVLAAAASAQPCASQGGPRPTGAGRTPSPLGLPFSRGPPAASARPFCHPSL*FSW*SSPSGLSLSDTPHSPRRPLGPVCGLRAPCPPQIPACRVPA AHSQRWPGSSSRSCRCQCC
9018	39386	A	9077	462	739	ACEPMVLFCLLALLLQDLFLGSYPRVLA AFDIQVFFLTSDRM*NTG\LEYFMLNSWLWLLNRL*SWGELCHFIP LHSPVKRGLNFYLQE FFI
9019	39387	A	9078	1	678	GTRVNMILMKMGFSGIVVHQESVCATYGSLSSTCIVDVGDQKTSVCCVEDGVSHRNTRLCLAYGGSDVSRCFYWLMQRAGFPYRECLTNKMDWLLLQHL/KRNF LSFRSRTSLGFRTMSFRFRHPDSPALLYQFRLGDEKLQAPMALFYPATFWICWTGK*RPLHTDLRAILKILTMNITC WPHKAHENS LQKLLLTESLHPNLLDLKGIFVASPLIFQKDSIPR

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9020	39388	A	9079	227	1980	GERLRYGV TENGKEKGGEKEK EQRGVKRP IVPALVPESLQEQIQ SNFIIVIHPGSTTLRIGRATDTLP ASIPHVIARRHKQQGQPLYKDR WLLREGLNKPESNEQRLNGLIM VDQAIWSNKMSNGTRRNPVSP EQARSYNKQMRPAILDHCSGN KWTNTSHHPEYLVGEEALYVN PLDCYNIHWPIRRGQLNIHPGP GGSLTAVLADIEVIWSHAIQKY LEIPLKDLKYRWILVIPDIYNK QHV KELVNMILMKMGFSGIVV HQUESVCATYGSGLSSTCIVDVG DQKTSVCCVEDGVSHRNTRIFS WRSGHLWVQDHEFQIRHPDSP ALLYQFRLEDEKLQAPMALFYP ATFGIVGQKMTTLQHR/LRAILR ILTMNITC WPHRANKNSLQKLL L TESLHPNLFEFERGFLWASPLI FQKDSIPRR*IWGLHREMA*WP ATIPRRPLTALMSRKT AISLFEG KALGLG*SPSSIAIDCCSSDDTK KKMYSSILVVG GGFVFIKASR IFCSTEFSTKCPPSLQADYLKM WM*SQGLKDM DPRLIAWKGG AVLACLDTTQELWIYQREWQR FGVRMLRERAAFW
9021	39389	A	9080	1	756	MRRIVALVETGEQPFGAATVGS RFGCLEDLGT DQREHDEMA AAHTYFIGDGD TLTEDEDEDT WGMAKGHHAINIEGFKLARVE DEM QFQEREPEKVKIRGRTRGY TFIMLAALAAAEADMVQVGE L\C*KVSLKASQLGQMALMLQS VTVQIGMVYGLPACGAQVN LQ DDKGSMVL/MCASKHGHMEI IK LLAQLGCNVHLQDNDGSTML SIALEVGHKGITVLLYAHISFAK AQSPGTPRLGMKPQSFI
9022	39390	B	9081	5	5440	

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9023	39391	A	9082	1	4294	WAVFDGNYYYYLPWAHTKPV VTLSYWEDISHRLDAVNALLA MAERLQTNIEALKSGIQGKIPA NQLAELWLKLIDEVIEDTRYTL PLTEGKANVTVLDTQIRKLRSR SLSQIHEAAVRMRSEATDVKST LAEIEDWLDKLMQLTEEPQNS MPDIIIWMIRGEKRLAYARIPAH QVLYSTSGENASGKYCGKTQTI FLKYPQEKNNGPKVPVELRVNI WLGLSAVEKKFNSFAEGTFTVF AEMYENQALMFGKWG
9024	39392	B	9083	1	339	
9025	39393	A	9084	2	1767	KLYRGKSDENEDPSVVGEFKGS FRIYPLPDDPSVPAPPRQFRELP DSVPQECTVRIYIVRGLELQPQ DNNGLCDPYIKITLGKKVIE\DR DHYIPNTLNPVFGRMYELSCYL PQEKDLKISVYDYDTFTRDEKV GETHIDLENRFLSRFGSHCGIPEE YCVSGVNTWRDSLRTQ\LLQ NVARFKGFPQPILSEDGSRIRYG GRDYSLDEFEANKILHQHLGAP EERLALHILRTQGLVPE\HVET RTLHSTFQPNISQGGKT/LQMWG GMFFPKSLG\PPGPPFNITPRKA KKYYLRVIIWNTKDVILDEKSIT GEEMSDIYVKG\WIPGNEENKQ KTDVHYRSLDGEKNFNWRFVF PFDYLPAEQLCIVAKKEHFWSI DQTEFRIPR\LIQIWDNDKFS\ LDDYLGFPRTLTCRHTIHFLQK SPGGNCRVWT*FPGPSKAMNPL KAKTASLFEQKSMKGWWPCY AEKDGARVMAGKVEMTLEILN EKEADERPAGKGRDEPNMNP LDLPNRPETSFLWFTNPCKTM K\FIVWRRFKWVIIG\LLFLLILL LFVGRAPLTLLPNYFVQWKIVK PNVLTGKGGFISRVIIQQ
9026	39394	A	9085	2	407	

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9027	39395	A	9086	15	759	SARPSHDYSHYYGTIEYLCYKI LGDIIENSRIVLQINNACLAADD F*TKYEREQT/LA/RTDLEMQTE GLKEELAYLKKNHEGEINALRG QVGGQISVEVDSALGADATNIL SDMQSQYENRKDAERWFTSCT EELNWEVVGHMEQLQMNRSQ VTDLRCNLQGLEIELQWQLSM KAALEARFGPQLAQIQAIISSIE AQLGDVRADSERQNQEYQLLM DIKLWLEQELATYLSLLEGQEE HYNLSLSTSKIL
9028	39396	A	9087	3	2026	AGPWDRMGAMGSLVGGDLGL VWGCAGEGFAGIPFSPCALTQC EGNQGTRAKWVQTSTRILKGQ VKQARGAQVTPYSPLWHGKLG RAAPTFNAPGRWLLPLLLPPPL L*ITTCLLGKRTLQEALSLKLQE LRKVCLQEAVRAWP*GYQAGR LGGGEELGPLGRPPTARAYPPP HPNQAHHSCLPAEV/MQMGVE SKRVGRGDRYRGVARR\MALA PDLSTEQRRRRRQVQADALRRL HELEEQLRDVRARLGLPVLPLP QPLPLSTGSVITTQGVCLGMRL AQLSQGEHPLVRVGEWTLANG RGRAGMGDSYPPNLPPTPTSL* PIPFHPVSGGSPERRTPWKPPPS DLYGDLKSRNSVASPTR*E*A PPPLRRSWEWDSKPGAEGPAS DRASLFVARTRRSNSSEALLVD RAAGGGAGSPPAPLAPSASGPP VCKSSEVLYERPQPTPAFSSRTA GPPDPPRAARPSSAAPASRGAP RLPPVCGDFLLDYSLDRGLPRS GGGTGWGELPPAAEVPGLSR RDGLLTMLPGPPPVAADSNSP LLRTKDPHTRATRTKPCGLPPE AAEGPEVHPNPLLWMPPTTRIP SAGERSGHKNLALEGLRDWYI RNSGLAAGPQRRPVLPSVGPPH PPFLHARCYEVGQALYGAPSQ APLPHSRSTAPPVSGRYGGCF
9029	39397	A	9088	1	136	
9030	39398	A	9089	14	310	TFLFIYFFFTETESHSL\VRLECS GVISAHCNLHLLGSNNSATSAS *VAVITGACHHAWLIFVFLVEA GFCHVG/RRLVSNS*PQVIRLPW PPKVLGLQA
9031	39399	A	9090	1	436	
9032	39400	C	9091	75	410	

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9033	39401	A	9092	1	6691	MVNTYREVKEGPVILEDVLEIV FRTLYSQCKAELDLQTEPPFSK DHAQLSSKLRENKKTAEIKTA NLLFNSFEPYYMWDYVARWFE ECCRRTLHVRLQIGPGDSNDSS ELQLTNFCLLVDFLLDIVSLETY IEIQTEHLPQLLLRMISALTSHL QTLHLSELTDRLRLCSKILSKVQ PPLLSASTGGVLQFPGSQNNNSV KEWEDKKVSSVSHENPTEVFE DGENPPSSRSSESGFTEFIQYQA DRTDDIDRELS
9034	39402	A	9093	293	687	PTAKVYIFSIFLTYHIVCCINTSS LFGFLQKNPEEDNSGRTLGLWE PGHLLALTICTVRSMEQLLPFFN VLSQVFNSKVTSRCGGHSGSPI LYSNAFPNKDMKLENHKPCSS KARQKIEEMVEKDFLEGMIKT
9035	39403	A	9094	3	4173	IPMVVSDFDLPDQQIEILQSSDS GCSQSSAGDNLSEVDPETVNA QEDSQMPKESSPDDDVQQVVF DLICKVVSGLVESASVTSQLEI EAMPPKCSIDPDEETIKIEDDSI QQSQNALLSNESSQFLSVSAEG GHECVANGISRNSSSPCISGTTH TLHDSSVASIETKSQRSHSSIQ FSFKEKLSEKVSEKETIVKESGK QPGAKPKVKLARKKDDDKKKS SNEKLKQTSVFFSDGLDLENW YSCGEGDIS
9036	39404	A	9095	5	1055	FDLVRVRLTYMVTREKIKRS VCKVQEIQIFNLYTKLLEQERVS GVPSSCSSSLENMLLFNSPSVG PDAPKIEDLKW/PFCISSENKVV LPWVSFG*KRPIKSRILLQN*PW K*RQNPAEAAARPVW*KGGDGG PRELFGFRKDLCRSTSHISTTEK WCGDARPWEKKRQSFSL*SH*R RLKGRIF*TESQAS/PGPQMCP GIWTTQELPPPLEWGSQHLGTR KEIVPKCNGSLIKVNYNQTAVK VPTTPASPVKNWGGFRIPKKGE RQQ/PGRGPRWGLPPALRLPIFG LRPSS\TKERAKSKLKSDNEND GYVPDVEMSDSESEASEKKCIH TSSTISRRTDIIRRSILAS

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9037	39405	A	9096	3	1136	FDIPFPKIGKLIKSNVPELRGHFP LSITLVLRMLLASKGDDPEDA KAKVLSVLKHSLLSFKQPRVM DMLKLYFLFSLQFLGGKRAI*IQ EG*SYGVCWDLVFTFGIYPWNL SNLVFVSFLVNGLFHDLCPTR KGSKHFSQDVMKLVVLVLAHL FGRRYFPPKFQDAHFEFYQSKV FLDDLPEDFSDALDEYNMKIME DFTTFLRIVSKLADMNQEYQLP LSKIKFTGKECEDSQLVSHLMS CKEGRVAISPFVCLSGNFDDDL LRLETPNHVTLGTIGVNRSQAP VLLSQKFDNRGRKMSLNAYAL DFYKHGSLIGLVQDNRMNEGD AYYLLKDFALTIKISIVSL/HVT YCENEDDNVLA FEQLSTTFW
9038	39406	A	9097	2	522	
9039	39407	A	9098	3	1080	FLLPFSHQSKKENS DQLMTLFT SFNSLHSAMESFFQATGNSTNL ADDGKRRTVVTVPILTKIDGVN VDTHHIPVNVTLRRIAHGADAV AARWDFDLLNGQGWKSDGC HILYSDENITTIQCYLSNYAVL MDLTGSELYTQAASLLHPVVY TTAILVLCLLAVIVSYIHHSLI RISLKS WHMLVNLCFHIFLTCV VFVGGITQTRNASICQAVGIHLH YSTLATVWLWGV TARNIYKQG H*KS*KMPRIPDEP/RTFNQDQW LRFYPDLVGGYPPSLVLRA*LA AANIKELRQSAKPHPY/WLGW HGNPPWEAFYGPASFSTFVNC MYFLSIFIQLKRHPERKYELKEP TGQQQLACQ
9040	39408	A	9099	1	307	
9041	39409	A	9100	2	286	

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9042	39410	A	9101	35	1211	EKDLLWEEKFPDRTTVTELPQT SHVSFSEPDIPSSKSTELPVDWSI KTRLLFTSSQPFTWADHLKAQE EAQGLVQHCRATEVTLPKSIQD PKLSSELRCTFQQSLIYWLHPAL SWLPLFPRIGADRMAGKTSP WSNDATLQHVLMSDWAVSFTS LYNLLK\KNFSPYFYVCTYQFT VLFRAAGLAGSDLITALISPTTR GLREAMRNEGIEFSLPLIKESGH KKETASGTS LGYGEYVIKITL/S SSTD LWTHEIDLHRNSL*NRDS NCSNF/LREQAIDEEDEEESFSW LEEMGVQDKIKKPDILSIKLRKE KHEVQMDHRPESVVLVKGINT FTLLNFLINSKSLVATSGPQAGL PPTLLSPVAFRGATMQLKARS VNVKTQALSGIQRPI
9043	39411	C	9102	48	464	
9044	39412	A	9103	1	140	MNRLKKEWMLEHIVENNSGM ESQDIKGHFHAADKDLLEMGY LQKRGLIGLTVLHWGGGLTIM AEG*KRSGCLSTLWKITPAWNL KTLKAIFMLLIKTYLKWAIYKR
9045	39413	B	9104	1289	2767	
9046	39414	A	9105	3	1278	INNNTNTRVLPSPSFVYTAKFHP AVRELVVTGCYDSMIRIWKVE MREDSAILVRQFDVHKSFINSL CFDTEGHHMYS GDCTGVIVVW NTYVKINDLEHSVHHWTINKEI KETEFKGIPISYLEIHPNGKRLLI HTKDSTLRIMDLRILVARKFVG AANYPGEDS*YFD/VH/GGTFLF AGSEDGIVYVWNPETGEQVAM YSDLPFKSPIRDISYHPFENMVA FCAFGQNEPILLYIYDFHVAQQ EAEMFKRYNGTFPLPGIHQSQD ALCTCPKLPHQGSFQIDEFVHT ESSSTKMQLVNQRLETVTEVIR SCAAKVKNLSFTWPPAVSSQ QSKLKQSNMLTAQEILHQFGFT QTGIISIERKPCNHQVDTAPT VV ALYDYTANRSEDLTIHRGDIIRV FFKDNE DWWYGQHRERGQEG

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9047	39415	A	9106	1	1249	MAVLIFLGCLLGGAIGLPIAWA LLLCGAALMFWLD MF DVQIMA QTLVNGADSFSL LAIPFFVLAGE IMNAGGLSKRIVDLPMKLVGH KPGGLGYVGVLAAMIMASLSG SAVADTA AVAALLVPMMRSA NYPVNRAAGLIASGGIIAPIPPSI PFIIFGVSSGLSISKLFMAGIAPG MMM GATLTLGKRARFTEDDTR ERDAISVINHQRNAVLIRQVRK LQQLFVIRVLAMRIFVYGSLRH KQGNSHWMTNAQLLGDFSIDN YQLYSLGHYPGAVPGNGTVHG EVYRIDNATLAELD ALRTRGGE YARQLIQTPYGS AWMYVYQRP VDGLKLIESGDWRVLRWLRVH SIDVPDPIFGLTVTGDRDTRAG KTSPAQAGCKLFLTNPLGIGVL TTAEKKSLLKPEHQGLATEVM CRMNIAGASFANIEGVKAMTD VTGFGLLGHLSEMCQGAGVQA RVDYEAIPKLPGVEEYIKLGAV PGGTERNFASYGHLWLR*LAL AP/LEVVEANGSL*CSGERGCL YGQTTTIQLNFRPAFCPEHAIAG QKVAILRLNMQIDIKRVSSRTH GNHFTNFKFTVQHYRSCLT

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9048	39416	A	9107	162	2106	KMSKLLKIAVSDSCPDCTTQRE CIYINESRNIDVAAIVLSLNDVT CGKLDEIDATGYGIPVFIATENQ ERVPAEYLPRISGVFENCESRRE FYGRQLETAASHYETQLRPPFF RALVDYVNQGNsafDCPGHQG GEFFRRHPAGNQFVEYFGAVPC RLVIPALKKQKRLSDLETAIVV VDRFSGEVRAMVGGSEPQFAG YNRAMQARRSIGSLAKPATYLT ALSQPKIYRLNTWIADAPIALR QPNGQ\ESVRVMLVDALTRSM NVPTVNLGMALGLPAVTETWI KLGVPKQDLHPVPAMLLGALN LTPIEVAQAFQTIASGGNRA\PL SALR*TIAEHGKELYQSFPQAER AVPAQAAAYLTLWTMQ\QVVQR GTGRKLGAKYPNLHLAGKTGT TNNNVDTWfAGIDGSTVTITW VGRDNNQPTKLYGASGAMSIY QRYLANQTPTPLNLVPPEDIAD MGVDYDGNFVCSGGMRLPV WTSDPQSLCQQSEMQQQPSGN PFDQSSQPQQPQQQPAQQEQ KDS DG VAGWITDMFGSNEHLS GYELDSYPLSSARRRARFTEDD TRERDAISVINHQRNAVLIRQR VKLQQFLVSNHIACWIRRPGDA NHPGFFANMQMLKIDVVFKLA FRQQFNIRTRRDKQIFFQSGVT
9049	39417	A	9108	1	66	
9050	39418	C	9109	79	150	
9051	39419	A	9110	2	475	GRGRWGAPRLRGAL*DP*GHF LGQQPRPQLHSPAPDR\PAPTPT DAEGL/PPAAAAAAGATARVP GSRGG*GQAAEELHEAGEAQA CRGGTEDEEHG**HLCHGRAS* CPGVSGSTGSPHSPSPMAPDDT SGLLEFVGVPQLTLFAWVSPAE AAEQQRL
9052	39420	A	9111	171	462	PTSMGHLYSFPGN*SHAHYHPI KT*SPLPHSTPISNPSA\PLKGLK PVITRLLQHGLLKPINSPIYHSPIL PVLKPKDAYKLVLQNRLINQIV LPIHSM
9053	39421	A	9112	1	573	
9054	39422	C	9113	100	297	
9055	39423	A	9114	1	1401	

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9056	39424	A	9115	24	482	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQT/GP/GPRNISPILNR AAPRQAQLGPNSSSASAPPPYN PFITSPHTWSALQFRFVTSPPPP AQQLTLKKVAGAKGTVKEHFC HDLPASSMQSNYPVHDSGHLT TGPSLFKPTLNIEYSTGHAP
9057	39425	A	9116	1	489	
9058	39426	A	9117	1	642	
9059	39427	A	9118	237	748	ETNPLSSCSLLRDKDPPTTSSPQ THQPKKHPPISNPAAPHQAE LG PNPSSASAPPPYNLFITSPHTW SGLPFRSVTSPPPPAQQFTLKKV AGAKGTVKTITDIELQVTLTVE ARLRPGEINSHVAHTKPVWWS LHTDTCDIWCRRPGTGGLLQET SPLSSPSLCEEIHL
9060	39428	A	9119	63	255	WVSGSVQVKVERGWDEGCKGI VKKACLTYNRIMHCVGRY*A *ESIWWHHGVNRQNNLVDKA
9061	39429	A	9120	24	389	SDVKANLSTGGPVGCGGDTL/P VAEKPSDAVEAPGV*APSAGG AGPA\PSGLEPSGAPPPP/ALPP RAVLDSGLAPGRPLPLASSNP/P PAGRRLLCTSPGRRGGAAGSG PRCPESKSIPLRCL
9062	39430	A	9121	704	867	CVKECLDVRHLRPFAYFTTRII* ILQDGKIQSAIF/CVIWNYCRVCI GVKRHSRRK
9063	39431	A	9122	1	7068	
9064	39432	A	9123	2	165	LLKRELNFDYKISTTKERHLQ QS*PKDS\VPSLLASQTPNAPFL APQRRCLLA
9065	39433	A	9124	1	148	IRHSVNLLRAG/RIFVFEPPLGLK ANTQRTFESGMKHVRIIYMMEF HVFM

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9066	39434	A	9125	1	2340	QFGIWLDSSTPEQTPPYLWSEE TPATPIGQAIHRLLLIQAFRPDR LLAMAHMFVSTNLGES\FMSIM EQPLDLTHIVGTEVKPNTPVLM CSVPGYDASGHVEDLAAEQNT QITSIAIGSAEGFNQADKAINA VKSGRWVMLKNVHLAPGWLM QLEKKLHSLQPHACFRLFLTME INPK\VPV\NLLRAGRIFVFEP PPGVKANMLRTFSSIPVSRICKSP NERARLYFLLAWFHAIQERLR YAPLGWSKKYEFGESDLRSAC DTVDTWLDDTAKASGRQNISP DKIPWSALKTLMAQSIYGGGRV DNEFDQRLNLTFLERLFTTRSF DSEFKLACKVDGHKDIQMPDGI RREEFVQWVELLPDTQTPSWL GLPNNAERVLLTTQGVDMISK MLKMQLLEDEDDLAYAETEK KTRTDSTSDGRPAWMRTLHTT ASNWLHLIPQTLSHLKRTVENI KDPLFRFFEREVKMGAKLLQD VRQDLADV VQVCEGKKKQTN YLRTLINELVKGILPARSWSHYT VPAG\MTVIQWGVPIARRIKQ LQNISLAAASGGAKELKNIHVC LGGLFVPEAYITATRQYVAQAN SWSLEELCLEVNVTTSQGATLD ACSFVGTGLKLQGATCNNKL SLSNAISTALSLTQLRWVKQTN TEKKASVVTLPVYLNFTADLI FTVDFEIA TKEDPRSFYERGGG
9067	39435	A	9126	3	6375	HKVAAPDVVPTLDTVRHEAL LYTWLAEHKPLVLCGPPGSGK TMTLFSALRALPDMEVVGLNFS SATTPELLKTFDHYCEYRRTP NGVVLAPVQLGKWLVLFCDEI NLPDMDKYGTQRVISFIRQMVE HGGFYRTSDQTWVKLERIQFV GACNPPTDPGRKPLSHRFLRHV PVVYVDYPGPASLTQIYGTFR AMLRLIPSLRTYAEPLTAAMVE FYTMSQERFTQDTQPHYIYSPR EMTRWVRGIFEALRPLE

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9068	39436	A	9127	3	617	SWFQPPSGPPWPGA\PPPPPLAR VNPGLVPSLTTSMDVEP*AQV ELPSHPRVPSAPGPAP*VLEPP RSLTTSVVGPPQGPSWAGGGMA VRQALEEAACRDPICAISSWAG GDRPLWWLDGLLLRVYPDSC PPCPSRIPAIFGASLQGSINPILQ MRKLFPHDMDLL*GQDPFSCR RPESWNRDVGWLA LGVFCLVP FSLVGSLN
9069	39437	A	9128	1	702	
9070	39438	A	9129	1	1317	
9071	39439	A	9130	1	2641	MGLKARRAAGAAGGGGDGGG GGGGAANPAGGDAAAAGDEE RKVGLAPGDVEQVTLALGAGA DKDGTLLLEGGGRDEGQRRTP QGIGLLAKTPLSRPVKRNNAKY RRIQTLYDALERPRGWALLYH ALVFLIVLG\CLILAVL\TTFKEY ETVSGDWL L L L E T F A I F I G A E F ALRIWAAGCCCRYKGWGRGLK FARKPLCMLDIFVLIASVPVVA VGNQGNVLATSLRSLRFLQILR MLRDGPGEGETWKLLG\SAICA HSKELITAWYIGFLTILSSFLV YLVEKDVPEVDAQGEEMKEEF ETYADALWWGLITLATIGYGD KTPKTWEGRLIAATFSLIGVSFF ALPAGILGSGLALKVQEQHRQK HFEKRRKPAAELIQAAWRYYA TNPNRIDL VATWR FYESVVSFP FFRKEQLEAASSQKLGLLDRVR LSNPRGSNTKGKLF TPLNVDAI EESPSKEPKPVGLNNKERFRTA FRMKAYAFWQSSSEDAGTGD MAEDRGYGNDFPIEDMIPTLKA AIRAVRILQFRLYKKKFKETLRP YDVKD VIEQYSAGHLDMLSRIK YLQTRIDMIFTGPPSTPKHKE VFRKGQHFTFPSQSSRGLNHM *ARPST\SEI\EDQRH*WGKFVKS LKGQV\QGLGRKLDLFLVDMHM QHMERLQVQVTEYYPTKGTSS PAEAEKKEDNRYSDLKTIICNY
9072	39440	A	9131	353	477	QNEILPQISKSNNEI*SRSPH*ITR NLNNSNKM AHKMKFAN
9073	39441	C	9132	170	310	

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9074	39442	A	9133	1	859	MSCGRPPPDVDGMITLKVDNL TYRTSPDSLRRVFEKYGRVGDV YIPREPHTKAPRGFAFVRFHDR RDAQDAEA\AMDGAEE*EGRAL RI\QVARYGRRDLPRSRQG/PTP RGRSRGGGYGRRSRSYGRRSRS PRRR\HRNRFFCPCSRSRRRGR YRGSRYSRSPYSRSPYSRYSR SPYSRSRYRESRYGGSHYSSSG YSNSRYRYHSSRSHSKPGSSTS SRSASTSKSSARRSKSFSVS\RS RSR\SRSSSMTRSP\GVSKRKSK SR\SRSKRPPKSPEEEGQMSS
9075	39443	A	9134	161	332	SCLNQLN/YLEMWKLFRKAQE DHTLGRDISYVAEVRPGEAGGR AHTGDSLLTMNPSFL
9076	39444	A	9135	1123	1489	LQTIQGHNSNQNSMVLVPKQR YRSMEQNRLRNNTYLQLSD L*QA*EKQAMGKGFPI*MLVG KLASHM*KAESGSLPYTLYKN* FKMD*RLKH*T*NHKNPRRKPR HYHSGHRHGQGLHV
9077	39445	A	9136	277	367	
9078	39446	B	9137	1	1136	
9079	39447	A	9138	3	1168	
9080	39448	A	9139	1	1460	ERGLETNSCSEELSSPGRGGG GGGRLLLQPPGPELPPVPFPLQD LVPLGRLSRGEQQQQQQQPPPP PPPPGPLRPLAGPSRKGSFKIRL SRLFRTKSCNGGSGGGDGTGK RPSGELAASAASLTDMGGSAG RELDAGRKPKLTRTQSAFSPVS FSPLFTGETVSLVDVDISQRGLT SPHPPTPPPPRRSLSLDDISGT LPTSVLVAPMGSSLQSFPLPPP PPHAPDAFPRIAPIRAAESLHSQ PPQHLQCPLYRPDSSSFAASLRE LEKCGWYWGPMNWEDAEMK LKGKPDGSFLVRDSSDPRIYLSL SFRSQGITHHTRMEHYRGTFSL WCHPKFEDRCQSVVEFIKRAIM HSKNGKFLYFLRSRVPPELPPNS CQLIYPMSRFSIYESFQHLAKF RIRQLVRIDHIPDLPLPKPLISYI RKFYYYDPQEEVYLSLKEA\QS VSKQKQEVPEPST*RGAPCWSP RAFGCQAPALKNQIKLP

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9081	39449	A	9140	2	418	KSPSKYLCYTFIISTAALVLLIM LPHESMPVYLGMACTLGFGAIV FTQRAV\FFAPIGEAKIAENKTG AAMALGSFIGYAPAMFCFSLYG YILDNLNPGIIGYKIVFGIMACFA FSGAVVSVMVLVKRISQRKKEM LAAEA
9082	39450	A	9141	26	180	KPAHQCCQVFFCPVVS AHQGEV LPYKSGVTSIESFVTHICKVIRR* LLSFLA
9083	39451	A	9142	299	921	FGTAALVL*IVLPPEISPSH*GM ACTLGLGAIVLTQRAV/FFAPIG EAKIAENKTGAAMALGSFIGYA PAMFCFSLYGYILDNLNPGIIGYK IVFGIMACFAFSGAVVSVMVLVK RISQRRIRRLRRIRQFHRRNTSS RYGSGFARGGRKATRGISSQEL GQGLSGEEQDGASGGVTAGDI ATGDYFLLTPHLQICTGAKGGL GCVVEGR
9084	39452	A	9143	1	752	MSELPFAIASKRKEYVGIQLPR YTIQKLEENLNVVLFDRSGHRT KFTNVGRMLLERGRVLLQAAD KLTTDAEALARGWETHLTIVTE ALVPTPAFFPLIDKLA AKANTQ LAIIT*VLGAWERLEQGRADI VIAPDMHFRSSEINSRKLYTL MNVYVAAPDHPHQPPEPLSEV TRVKYRGIAVADTARERPVLTV QLLDKQPRLT VSTIEDKRQALL AGLG VATMPYPMVEKDIAEGR LRVVSPESTS
9085	39453	A	9144	389	760	SWRIDVHPV*YTTRLFPFVLPY MQKGTSIRTSSRQLLDKQPRLT V/STIEDKRQALLAGLGVA/TMP YPMVEKDIAEGR LR/VVSPESTS EIDIIMAWRVTKRTPKN*WTM MPENIGEYTKTTHILG

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9086	39454	A	9145	1	941	MTAMERSRILRRAVDILRERND ELAKLETLDTGKAYSETSTVDI VTGADVLEYAGLIPALEGSQI PLRETSFVYTRREPLGVVAGIG AWNYPQIALWKSAPALAAGN AMIFKPSEVTPLTALKLAEIYSE AGLPDGVFNVLPGVGAETGQY LTEHPGIAKVSFTGGVASGKKV MANSAASSLKEVTMELGGKSP LIVFDDADLDLAADIAMMANF FSSGQAKR/NGARVLCGGDGVR ARDRPNLRRENLRGKYHS*QR HRRPDAC*YRPL*RCGGRYAD D*VQAGAGSDGL*ATGHGGRR EC*PYVTGEAG
9087	39455	A	9146	3	504	DQQQNRQR/LIDCFPHAQWAKE VDVSDKEARCGVRCATRDHLP MVCNVPDYEATLVEYASSAEH KDDAVSAPVFDDLFI\GSRGLC SGPLCAEILAT*IS\DEPMPMDA SML\AALIPNRLWVRKLLKGKA VKAGAVHFRRSIIYFHPQQANA LDFPSTHIKYCTMLL
9088	39456	A	9147	197	353	YGFRWPD*AHPAIN*ASAASISF LRWLIRLTSITETAPLNAKQAI MPNTIL
9089	39457	C	9148	1	1263	
9090	39458	A	9149	3	726	GAKNAREAIYHIEGDPDHPNEN RLRYPEYRAPGSDKWQRISWEE AFSRIAKLMKADRANFIEKNE QGVTVNRWLSTVNKKKISLRT VGAALVLQVVIGGIMLWLPPG RWVAEKVAFGVHKVMAYSDA GSAFIFGSLVGPKMDTLFDGAG FIFGFRVLPALIFVTALVSILYYI GVMGILIRILGGIFQKALNISKIE SFVAVTTIFLGQNEIPAIVKPFID RLNRNELFTAICSGMASIDG
9091	39459	B	9150	1	1662	
9092	39460	B	9151	1	2658	
9093	39461	C	9152	1	2526	
9094	39462	A	9153	422	585	PYRLKQNIAGA*PIKLPNAIAAP VLFSIAFASTIGAKILLAVLRLSR PHPSVHA
9095	39463	A	9154	1275	1485	
9096	39464	A	9155	1	439	

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9097	39465	A	9156	1049	2195	NMPKASSCRFSTATTYLRDRSC K*PWAGS*KKNSWR*CRRRTTS SHRTRLNATWGVSVKRRTKAR CSMVCASRGS/SNARGLELVKE GRAQACVSAGNTGALMGLAK LLLKPLEGQNHRLMLLRWEAKL AALVRLQENTAQPVPFAPNNA RPLTLEDDRLSCTVRGYNFAITF SKMSGKPTSWQLVASALATKI AHEVNPQNQVGCMLAGGNFYF YSCKPEDVWAALEKDRENLF DVQARGTYPAYSARVFREKGV TINKAPGDDEILKNTVDVFSFSY YASRCASAEMNANNSSAANVV KSLRNPYLQVSDWGWGIDPLG LRITMNMMDRYQKPLFLVEN GLGAKDEFAANGEINDDYRISY LREHRCNGRSDCRQAFR
9098	39466	B	9157	482	542	
9099	39467	A	9158	115	1662	TPYPDAITTHDIVDTPVQGGA VRVLVFSASLSRVSSVLFSLV WGFVSFCRRFVPCRVCVLLCCL FWCFVFGVWLPRRHMSNHAAI GVGEQQCQRGNINGAPETFAS MANTGT*QW/QRISWEEAFSRI AKLMKADRDNFIEKNEQGV VNRWLSTASLAPTFRGAMTN HWVDIKNANVVMVMGGNAEE AHPVGFRWAMEAKNNNDATLI VVDPRFTRTASVADIYAPIRSGT DITFLSGVRLRYLIENNKINAEYV KHYTNASLLVRDDFAFEDGLFS GYDAEKRQYDKSSWNYQLDE NGYAKRDETLTHPRCVWNLLK EHVSRYTPDVVENICGTPKADF LK\APDR\TTTFLYALGWQTHT VGAQNIRTMAMIQLLLGNMGM AGGGVNALRGHSNIQGLTDLG LLSTSLPGYLTLPSEKQVDLQS YLEANTPKATLADQVNYWSNY PKFFVSLMKSFYGDAAQKENN WGYDWLPKWDQTYDVIKYN MMDEGKVTGYFCQGFNPVASF PDKNKVVSCLSKLYMVVIDP LVTETSTFWQNHEAAVSGGKR PGRKRLNLLPMARLTTTASAT YANISAQWAKRLQTAFR
9100	39468	A	9159	1	2235	
9101	39469	A	9160	1	1821	

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9102	39470	A	9161	14	1785	FDQVEERVSVIEDQMNEMKRE EKFREKRVIRNEQSLQEIWDYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSSRRTTPRHILNA HKRK*ERYKIDTLTSQLKELEK QEQTYSKASRRREITKIRAELEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITDPTEIQTIREYYKHLY TNKLENLEEMDKFLDTYTLPRL NQEEVESLNRPIITGSEIEAIINSL PTKKSTGPDRTAEFYQRYKEE LVPFLLKLFQSIEKEGILLNSFYE ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDKNHTIISIDAEKA FDKIQPFMLKTLNKLIGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
9103	39471	B	9162	1	2025	
9104	39472	B	9163	67	3156	

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9105	39473	A	9164	1	2019	MDTIKNDKGDITTDPTIEIQTIR EYYKHLANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPVGR SEIEAIINSLPT/KKSPGPDEFTAE FYQRK\AFDKIQQAFTLKTNLK LVIDGTYRKIIRAICDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSQYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLGQLTRDVKD LFKENYKPLLNEIKEDTNKWEN IPCSWVGRINIMKMAILPKVIYR FNAIPIKLPVAFTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWRTEPSEIMLHIY NYLIFDKPKDEQWGKDSLFI KWCWENWLDIWRKLKLDPFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNTILDIGMGKDFMSKTP KAMATKAKIDNWDLIKLSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLSIIATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
9106	39474	A	9165	1	3477	

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9107	39475	A	9166	1	2460	MGDFNIPLSTSDRSTRQKVNKD TQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCRRTEIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNLL LLNDYWVNNEMKAEIKMFEEI NEDKDTTYQNRWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TEIRAELEIETQKTLQKMNES RSWFFEKINNIDRLLARLIKKKR EKNQIDAIAKNHKGDTTNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQEQVESLNRPI TGAEIEAIINSLRTKKSPG\PGGF TAEFYQRYKEE/HVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMTVYLENPTVSAQNLLKLIS NFSKVSGYKINVQNPQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDMKELFKENYKPLLS EIKEDINKWKNIPCSWVGRINIV KMAILPKVIYRFNAIPIKLPMTF FTELEKTTFKFIWNQKRARIAK SILSQKNKAGGITLADFKLYYK ATVTKTAWYWYQDRHIDQWN RTESSEIMPHIYNYLIFDKPDKN KKWGKDSL FNKWCWENWLAI CRKCLKDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDT GMGKDFMSETPKAMATKDKID KWDLIKLSFCTAKETTIRVNR
9108	39476	A	9167	1	1389	

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9109	39477	A	9168	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAIEVAIINSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDAEKAFDKI QQPFMLKTLNKLIGIDGTYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSQYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQK\RARI AKAILSQKNEAGGITLP
9110	39478	B	9169	1	1716	
9111	39479	B	9170	1	3171	
9112	39480	A	9171	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSIQAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNLYLQEFLFTP QWHLECQQERTVHSPGKA AEA REPSVIDRH LIQE SSWHLVGA ALGQSFQRKEQAAIFAVLQPLL VIPRQTGSGVDLQKTP TDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTE NEFDKLT EGGFKRWVI TNSSSELKEHVLTQCKEDKNLEK SAIKLELRIKNLIQN
9113	39481	B	9172	1	2406	
9114	39482	A	9173	1	2307	

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9115	39483	A	9174	3	2776	QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHILGSKALLSKCKRTEII TNCLSDHSAIKLELRIKTLTQSH STTWKLNLLNNDYWVHNEM KAEIKMFFETNENKDDTTYQNL WDAFKAVCRGKFIALNAHKRK QERSKIDTLT ⁵ QLKELEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREK
9116	39484	B	9175	133	3213	
9117	39485	A	9176	284	1689	QNFGNFKDLL*RSLW*REKSWI CML*ARNTASRQQRNKAGQR MTLMS*EKKASDDQTSPS*R/Q EVRTHRKEAKNLVKRLDKWLN RITSVEKSLNDLMELKTM/RTR TTT**MHKLQ*PI*SFGRKEIQT IRE\KHL YANKLENLEEMDKFL ETYTLPRLNQEEVESLNRPTGS EIEAIINSLPTKNSPGPDRTAKF YQMYKEELVPFFLKLFSIEQE GILPNSFYEASIIIPKPGRDPTK KENFRPISLMNIDAKIFNKILAN QIQQHIKKLIHHDQMGFIPGMQ DWFNIRKSINVIQHINRTKDKN HTIISIDA EKAFDKIQQC FMLKT LNKLIGDGT YVKIIRAIYDKPTA NIILDGQKLEAFPLKTSTIQGCP LSPLLNFIVLEVLARAVRQEKEI KGIQSGKEEVKLSLFADDMTV YLENPIISAQNLLKLKSNFSKVS GYKINVQKSQAFLYTNNREP
9118	39486	A	9177	1	1515	

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9119	39487	A	9178	3	1601	ESRS*FFEKINKI/D/RLARLIKK KREKNQIDAIKNDKGDITTDPT EIQTIREYYKHLTYTNKLENLEE MDKFLNTYTLPRLNQEEVESLN RLITGSEIEAIINSLPTKKSPGLD TFTAEFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEAIIILIQKPG RDTTKKENFRPISLMSINAKILN KILANRIQQHIKKLIHHDQVGS PGMKGWFNICKSINVQMCHINRT KYKNHMIISIDEEKAFQKIQRK MLKTLNKLSDGTYLKIIRAIYD KPTANIILNGQKLEAFPLKNGT RQGCPLSPVLFNIVLEVLARAI/ RLISCFKSVSGYKINVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLGQLTRDVKDLFKENYKP LFNEIKEDTNKWKSPICSRVGRI NIVKTAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRACIV KTILSKKNKAGGITLPDFKRY KATVTKTA/WSFHELGKTQLAT RTTVSTFQQIPGI*VQLRFD DITLLSLLCR
9120	39488	B	9179	1	2034	
9121	39489	B	9180	1	2088	
9122	39490	A	9181	1	1870	MKAEIKMFFETNENKDDTTYQN LWDTFKAVCRGKFIALNAHKR KQERSKIDTLTSPLEKEKQEQT HSKASRRQEITKIRAELEIETQ KTLQKINESRSWIFESINKIDRPL ARLIKKKREKNQIDAIKNDKGD IITDPTIEIQTIREYYKHLTYANK LENLEEMDKFLDTYTLPRLNKE EVESLNRPIGAEIVAIINSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFQSIEKDILPNSFYEASI ILIPKP
9123	39491	A	9182	1	1410	
9124	39492	A	9183	1	3996	

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9125	39493	A	9184	281	3030	KPRLNYMKNAEASRADAINW KKG Y/LVMEDKMNEMKREGKF REKRIKRNKQSLQEIWDYVKRP NLRLISVPESDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RTPQRYSSRRATPRHIIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTA EYY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASHI
9126	39494	A	9185	1	2250	
9127	39495	A	9186	248	2385	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMMLST CDIDLTAARRAWLGCLPTKKSP GPDGFTA EYFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASHILI PKRGRDTTKKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFIQGMQGWFNICKSINVI QHINRTKDKNHMISIDA E KAF DKIQQP FMLKTLNKLIGDGYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWYWYQNRDIDQ WNRTEPSEITPHIYNLYLFDKPE KNKQWKGKDSL FNKWCWENWL AICRKLKLDPFLTPYTKIHPRWI KDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMA AKA KIDKWDLIQLKSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKKVTNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREMQIKTTMRYHL

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9128	39496	A	9187	1	2229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSAMEDENMEMKRE GKFREKRIKRNEQSLQEWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLRQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLIYANKLENLEEMD TFLDTYTLPRLNQEEVESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEELVPFLKLQFSIE KEGILPNSFYEASIIIPKGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDAEKAFDKIQPFML KTLNKLIGDGTFFKIRAIYDKP TANIILNGQKLEAFPLKTGTTRQ GCPLSPLLFNIVLEVLRARIRQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRIKYLGIQ LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIGKTTLKFIWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYQYQNRDIDQWNR
9129	39497	A	9188	1	2667	
9130	39498	A	9189	1	3033	MADMLTWESCLEESLQEEESPL VTHCGPSCCISGQSPSSARPSS VSSAISVLMLPQNRKLPPAWTS PGIFPTDLVVYSMSLPHALARY NCDVCKSMLPPRLYAPEEKAR TSPLCGTWYSPSLPLCGAWCKK NEKKRERERERKRQREDILSGA SSYKDTIHIQLRPPPYDVLQQIQ TTIREYFKHLIYANKLENLEEMD KLLDTYTLPRLNQEEVESLNRLI TGSEIVAIINSLPTKKSPRDPGFT AEFYQRYKEE

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9131	39499	A	9190	1	950	MQAICTGQARALICMGGNFAL AMPDREASAVPLTQLDLAVHV ATKLNRSHELLTARHSYILPVLG RSEIDMQKNGAQAVTVEDSMS MIHASRGVLPAGVMLKSECA VVAGIAQAALPQSVVAWEYLV EDYDRIRNDIEAVLPEFADYNQ RIRHPGGFHLINAAAERRWMTP SEIQTIREY\YKHL\YTNKL\ENL EEMDKFLDTYSLPRLNQEEVES LIRPITGSEIEAVVNSPPTKNSPG PDRFTAKFYQRY/K/EELVPFFL KLFLAAVPAPSSHGPFCCSRKA LRGSKTGSAYPSSSALRRVTVS EVLCLFAEAQLF
9132	39500	A	9191	1	3470	MASVSSATFSGHGARSLLQFLR LVGQLKRVPRTWVYRNVQRP ESVSDHMYRMAVMAMVIKDD RLNKDRCVRLALVHDMACIV GDIAPADNIPKEEKHREEGK CHKQKAMGKHLKEPHVLGQET KGLESTDVLLPLPAAGQDLGRE KKIREEAMKQITQLLPEDLRKE LYELWEDLEFESPSCLDSLCC SLKPQSESSPVLPEGCETLIQRL CAVGTGVTAAALATRLCRASGL PAPHQWASELQRSRKKE
9133	39501	A	9192	1	3907	MAAWNLLLSYAYWGGLRKE DFHCLDRKTLRTVSFLAALLSY ESIGGKGKLTTRKDIYTENPSV HHHHQRPKVDTTKMGKKQN RKTGNSKMQSASPPPKERSSSP ATEQSWMENDFEELREEGFRRS NYSELREDIQTGKEVENFEKN LEECITRITNTEKCLKELMELKT KARELREECRSLRSRCDQLEER VSAMEDEMNMKREGKFRDK RIKRNEQSLQEIWDYVKRPNLR LIGVPESDVENGTKLENT
9134	39502	A	9193	3	3197	

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9135	39503	A	9194	1	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLLSDLQRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEIITNYLSDHSAI KLELRIKNLTQSRSTTWKLNNL LLNDYWRKQERSKTDLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKKEKNQID TIKNDKGD
9136	39504	A	9195	1	3285	
9137	39505	B	9196	1	1366	
9138	39506	A	9197	735	3541	RSFPRSRPSPFLLLSRYLRIHVM FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRVHKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITTDATETIQTIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNR PITGSEIEAIINSL PTKRSPGPDGFTAIFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASIILIPKGRDTTKKENFRPIS
9139	39507	A	9198	1	5356	MGKKQNRKTGNSKM QSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERV SAMEDENEMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIETYFFS APHHTYSKIDHIVGS

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9140	39508	A	9199	1	2491	MGDFNTPLSTLDRSTRQEVNK DTQELNSALHQVDLIDYRTLH PKSTEYTFFSAPHYTYSKIDHIV GSKALLSKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWKLN NLLLNDYWVNNEVKAEIKMFF ETNENKDTTYQNLWDTFKAIN KIDRPLARLIKKKREKNQIDAIK NDK\WDITTDPTETIQTIREYYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPTGSEIEAI TNSLT\TKKSPGPDGFTAKFYQR YKEELVP\FLLKLFQIEKEGILP NSFYEASIIIPKPGRD\TKQKK NFRPISLMNIDAKILNKILANRI QQ\HIKKLIHHDQVGFIPG\MQG LFNICKSINVIIHHINRTKDKNYM IIS/I*DAEKAFDKIQPFMLKTL NKLGDGTYLKIIIRAIYDKPTAD IILNGQKLEAFSLKTGTRQGCP SPLLNFIVLEVLARAVRQEKEIK GIRLGKEEVKLSLLADDMIVYL ENPIVSAPNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD MKDLFKENYKPLLNEIKEDTNK WKNIPCSWVGRINIMKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKMSIIDTGGW
9141	39509	A	9200	1	3083	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNEKCLK ELMELKTKARELREECRLSR CDQLEERVSAEMEDMNEMKRE GKFREKRIKRNEQSLQEWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLANKL

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9142	39510	A	9201	1	4201	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKGQEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNMKQE GKFREKRIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTS
9143	39511	A	9202	715	6193	GQHHPDTKAWQRHNKKKENF RPISLMNIDAKILNKMLANQIQ QHIKKLIYHDQVGFIPGMQGW NICKSINVIIHHINRTKDKNHMII SIDAAKAFDKIQPFMLKTLNK LGIDGTYLKIIRAIYDKPTASIIL NGQKLEAFTLKTGTRQGCPLSP LLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIISAQNLLKLIGNFSKVSQYTIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKR
9144	39512	A	9203	1	3682	KEGHYIMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDLE SHTLIMGDFNTPLSTLDRSTRQ KVNKDTQELNSALHQADLIDIY RTLHPKSTEYTFFSAP\HHTYSK IDHILGSKALLSKCKRTEIITNCL SDHSAIKLELRIRKLATQNARSAT WKVNNLPPGMTYVW\HNGNE GQKLKMFETQWE/HKDTAYQ NLWDTFKAGCRGKFIALNAHK RKAGKDPKLTPLTSQK\LEK QEQT\HASKAS
9145	39513	A	9204	1187	1680	DSPCTIASTRSYSFICNRPLSVDI QLRCSCRNVRRLLSTYC/LYLRLQ LRIEGGNFVFTTKADNGPQQIIT *TNSFPVGNNAAQTVKVRHHILT FFINLFGKEIGGPDHFNNGFTQP LPSSGGTQPQHLSCVTIDGGNVT MRIHRNQPFINRTKQRLLLTDH ACDLLWLH
9146	39514	A	9205	3	293	ERSWSQLLFSTEQFWQQLPGTG SGRARQNISRKTPREHAGGYRR DNGNNWAVPHIQCNLVPR**K RPPVRAHRAPELTCASKALQEQ RYWVFELLR
9147	39515	A	9206	1	4509	
9148	39516	A	9207	1	507	

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9149	39517	B	9208	1	3448	
9150	39518	A	9209	1	2652	
9151	39519	A	9210	75	784	
9152	39520	B	9211	1	1968	
9153	39521	A	9212	1	298	LQGH LVGDYVSL SCLPFGIMGH GNWPLWVLTACL VLLLC*/WSL RRQ*IQQ*APSDQKRDFLVPHG A/VFDR*ISATCWSSINWPANCS RPSIAGWPKQAS
9154	39522	B	9213	167	362	
9155	39523	A	9214	959	1267	YHWHQLLSMVRQLMVLSWKK ISSWFMGPPIRKSILAENSI*KN LV*VIILKLTEGISTLK*MAPQN TQY*MTVIKLFKWVARQTRLR SIMVCYSSTTTLLT
9156	39524	A	9215	370	555	
9157	39525	A	9216	1	1016	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLLAQHQLARQLFKTINRWLAE AGVMMTQGTLVDAIHIEAPSST KNKEQQRDPEMHQTKKGNQW HFGMKAHIGVDAKSGLTHSLV TTAANEHDLNQLVQNELETAE RFRRQEDTQSKCLLSSIMLYIKN LSGPDVSELISPLSEGFNLCSV VVA VIAA VLRRAPIHMPSGWW RSWNAESGAYNVTRSGDSYI/H G*LLYRSRKLDPADDEGALQK WWSVLPFFKRRLWF
9158	39526	A	9217	408	643	PGCGSGHSWHRHQCGPSCQSA TDCLSWSDASPDRAALCSWS SWVPQ*WWHR/HKVP*VIMTP ASASQRLMVLNNWRAS
9159	39527	A	9218	626	760	
9160	39528	A	9219	1	2469	
9161	39529	A	9220	1	756	
9162	39530	A	9221	1738	1913	PTAWSPRPTSMTSISWVICFME RSNLSQPMPTAKERHSARSWPR WMWTG*SPSVPAR
9163	39531	A	9222	2403	2760	FRGDGILVSCPLVFSSAFSWRA ADGGKNRNVHPSV/VR*AGAL RPRTQSRIQ/SQRLNKVEKGGV KQFEHNQSCRQQVGVTIKVVK QLADILPHGHFQFYAEVIGKLF RQRSARDAIRGSS
9164	39532	B	9223	1	3663	

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9165	39533	A	9224	1	1584	MELIEKHVSFGGWQNMRYRHYS QSLKCEMNVGVYLPKAAANEK LPVLYWLSGLTCNEQNFKSG MQRVAAEHNIIVVAPDTSRGS HVADADRYDLGGAGFYLA TQAPWNEHYKMYDYIRNELPD LVMHHFPATAKKSISGHSMGG LGALVLALRNPDEYVSVSASFSP IVSPSQVPWGQQAFAAYLAEN KDAWLDYDPVSLISQGGQRVAEI MVDQGLSDDFYAEQLRTPNLE KICQEMNIKTIRYQRGACISAD AATRGAKRESCRSGLLIAER PAKVEPGTASRQDNTAINIEM KASIRARVEHPFRIKRGFVK ARYKGLLKN\ETNWRCSYRWP/ HLFRADQMIRNPHDLYAPEVV HQKAKVTTSGYRFLPCCGFAN TFWGKTTADGTLIEHFGRRCCG WFEDDDGHREQCDFRFRFKNC PQCNAENDIAARRCRECDTVLV DPDDMLKAALRLKDALVLRCS GMSLQHGHDKEGEWLKITYYD EDGADVSEFRQLQTPAQRTAFE QLFIRPHTRTPGI
9166	39534	C	9225	1	2127	
9167	39535	B	9226	1	1917	
9168	39536	A	9227	1671	2198	RAGAWASDPQRQGVVRNAALL PPDDRS DGRDAKTQSHRDG/VI SY/RAFDETILASGIVPRTPIDGI DHPKNEADDMLRMGFIEDVETI /IGADPGRSSDRSVLCNHAGSDS SHYPPLYERAAGSAHSVQRDYP SGHQPELLDCLGYARTRSTDGT TPERWSSGHPDCDRRCSPWPGR
9169	39537	A	9228	642	746	
9170	39538	A	9229	1	2031	
9171	39539	A	9230	909	1058	
9172	39540	A	9231	2	268	WRCLLRQLKFIKTVTSWICTG KLMLSTTSPLMMQMMVILLMP VLASKVKPKSTIN*LVSVSGNM NSKATALNLKVPKIKPVLPSL
9173	39541	A	9232	63	463	FPATCWSSINWPANCSRPSIAG WPK/PGVMMTQGTLDATIIEA PSSTKNKEQQRDPEMHQTKKG NQWHFGMKAHIGVDAKS\A*P TAWSPRPTSMTSISWVICCME RSNLSQMPATKGRHSARSWP RWMWTG

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9174	39542	A	9233	74	247	RNVMIKRRVLSSTSAS*LPPASA FCRLFSTPARWRSTACFTSGNR YRFLTVRLSGYW
9175	39543	A	9234	3	271	ASYWNRSFSPWGTYNRHRP*N RQCASRHCRGLHKQYQWPRI S/WLNCTPAPHARDVLLWRPSS LPAGNADGPIRWRPCCVFTACS IGTT
9176	39544	A	9235	1	1048	MCSFRSQTFCSSRFTFARVSVI HSANHRVLNDRSTIMRTRGQD PTLPEMRRVRLLMADAMD MF CQGLRYGPLPAPVRQQAIIIPC HRVVRGDGTLSGYRWGVSRKA QLVRREAENEERPINRGWPKQP SDDPKHFVMPITIEAPSSTKNKE QQRDPEMHQTKKGNQWHFGM KAHIGVDAKSLTHSLVTTAA NEHDLNQLGNLLHGEKQFVSA DAGYQGAPQREELAEVDVDW LIAERPGKVKTLKQNPRKNKTA INIEYMKASIRARVEHPFRIIKR QFGFVKARYKGLLN\ETNWR CYSPWPTCFGWTK*YPSIPTCLL TTRTASLLKPPGVRTSVCWQQL

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9177	39545	A	9236	1	2493	MTQIFTGTLVEADPFHAVTLVA NHDTQPLQALEAPVEPWFKPL AYALILLRENGVPSVFYPDLYG AHYEDVGGAGQTYPIDMPIIEQ LDELILARQRFAHGVQTLFFDH PNCIAFSRSGTDEFP GCVVVMS NGDDGEKTIHLGENYGNKTWR DFLGNRQERVVTDENGEATFFC NGGSVSVWVIEEAANNRQYDY GAGHKIPVINYTDVHLRIERSCR FRADPRQQHELQLSSKLAVHD VLTNIYNRRYFFNSVESLLSRPV VKDFCVMLVDINQFKRINAQW GHRVGDKVLVSIVDIIQQSIRPD DILARLEGEVFGLLFTELNSAQ AKIIAERMKNVELLTGFSNRY DVPEQMTISIGTVFSTGDTRNIS LVMTEADKALREAKSEGGNKH WYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHL LEQHQLARQLFKTINRWLAEA GVMMTQGTLVDAITIEAPSSTK NKEQQRDPPEMHQTKKGNQWH FGMKAHIGVDAKSLTHSLVT TAANEHDLNQLGNLLHGEEQF VSADAGYQGAPQREELAEVDV DWLIAERP GKVRTLKQHPRKN KTAINIEYMKASIRARVEHPFRII KRQFGFVKARYKGLLKN\ETN WRCYSRWP/HLFRADQMILCPV FVHHIPRFFGTFFGATDTQTFTL TESVIHQPLVLTNFIAIDGNDA
9178	39546	B	9237	1	3148	
9179	39547	B	9238	1	1680	
9180	39548	A	9239	191	470	

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9181	39549	A	9240	1	1675	MFARVSTTPVTRYEMYRKTRS TRLEDNNALSQSKPLPFSEVT GSKGKADKEKVGDYVFCLKAQ GRYNGEPLTGTGKIGGMLALR GEGTPFPVQADFRSGNTRVAFD GVVNDPMKMGGVDLRLKFSG DSLGDLYELTGVLPPDTPPFET DGRLVAKIDTEKSSVFDYRGFN GRIGDSDIHGSLVYTTGKPRPK LEGDVESRQLRLADLGPLIGVD SGKGAEKSKRSEQKKGEKSVQ PAGKVLPHYDRFETDKWDVMD ADVRFKGRRIEHGSSLPISDLST HIILKNADLRLQPLKFGMAGGS IAANIHLEGDKKPMQGRADIQA RRLKLKELMPDVELMQKTLGE MNGDAELRGSGNSVAALLGNS NGNLKLLMNDGLVSRNLMEIV GLNVGNYIVGAIFGDDEVVRVN CAAANLNIANGVARPQIFAFDT ENALINVTGTASFASEQLDLTID PESKGIRIITLRSPLYVRGTFKNP QSG*WS/GTLLLSTKAKTIVAISI TTLKVTVMASVSLLPMNTKDS VSVQLMRNLIVPTLKLMMQGKFF LKYLLPVKMQKFGPQV
9182	39550	A	9241	72	506	GHVAHLQPRAGGRQPARLHHP QGTDRVLHGQRGQQPGP/LLPS LSAWRPSTSTLKPASCGLRGPT SKRMSMQDGGPLPHHRAGAQP PVHPGQEA VG*/C/EYWSASSRP VTQPGALMWRLWS\AGRPRPY LLSHSQHDPHSGQGGGEHP
9183	39551	A	9242	1	447	
9184	39552	A	9243	70	490	CGCDAETIILRINALAFIWKCGT EWICCFCLALRELQQAVHAG LPQQA KILFDGGSEIGKIH*LRC AHCPLSS\GKPVVPAALMNRPT RGERRFAYWAPGWFFFSPVRR ATADCPSPGPERVAASGPRWF APAGENPV

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9185	39553	A	9244	1097	1841	ANDGDLRSCVTLSCHMSHASE AADPPATTAFTDEHMSVKLRR TVGVACSVCPGWVTSGHPVNP AAS/GAKVLPGDTDIALPGPLPF ILSRQLRDNTLILSDNGGRILY FELLFPGEDGYRRCESLWLVRG GVAKLDQGHRLAALWQALSEE LRLTPHRYLATNSPQGPWWLL GWCERVPEADEVLPAPLPPYRV LTGLVDRIWRSEDVSAASGLHH DNRNAPSLSDQTRTDPPIRAH SRYQRQKPDG
9186	39554	A	9245	456	928	EAATEPKHLHQLRHAALAQHR QAPRPQGRPLARPHQGQDQPD RLHHLRGGRHGARGHLHQA GAGESAPAPKG/VTCPASPLGD VTGKPTSAWNTKGRWAQHR GYSPGPAAPLVLRSWPIPLFRP PPLLPLSSPAWILPSPLCHSLKA QSLVQATI
9187	39555	A	9246	1	1572	

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9188	39556	A	9247	1	2505	MAWRNSVNWQCKQEPGFLHR RHGRRKLTNGTTRRSLQNKEE DFYTSQPGFPALALGCCLRVNL LLGHRGISAGSSYPITSTPCHL CKLGQEVFAKPLNLQDQCQQN LVMQVLKLVNLCLNFDFIGSSA DESADDLCTVQIPTTWRTMGL VGCDGVCCRTRWCQCLATAV VSGVGGGPWLLPACSSGSPMIS KRKKFVHKWAKDLVEPRHGLE NVWDLPRAMAGSYLMYKQRK WKIMEFGKWALQHKMTVKDIE RLQLYNKVKEQPQVEGSGRA STIFWVLKTFKGGKSPCGAPGE CVAWTQCRILGWVQIHFKHP ADRVVGLIKMPGLDFYFAADV CYAEKVAQEKGFLYRLTSRYR HYAAFERATFEQGKSTKLMMML TDKQIADFQKHQTEPERFQILP PGIYPDRKYSEQIPNSREIYRQK NGIKEQQNLLLQVGSDFGRKG VDRSIEALASLPESLRHNTLLFV VGQDKPRKFEALAEKLGSERAS MEFKRYEYNAAGDLTAVITPD GNRSETQYDAWGKAVSTTQG GLTRSMEYDAAGRVISLTNENG SHSVFSYDALDRLAEDEGLVIL WYYDESDRITHRTVNGEPAEQ CQYDGHGWLTDISHLSEGHRV AVHDGYDDKGRLTGECQTVEN PETGELLWQHETKHAYNEQGL ANRVTPDSLPPVEWLTYGSGYL
9189	39557	A	9248	481	857	PLAYLYRDPHVRRCVTASGPAP VYGIFQPGFSAPTG/IRKSVHGD HSYCKYAHSCSRQYRAPEPRLS RTSQCLFSHRARCPLLDLMGR RYRRPECRLSPLLPAAPVPGLPP WTIYPRRLYRNSPR
9190	39558	A	9249	777	1229	GAGYSSARCGKHHARTGGAGR NILWRQLRRRGCRSTVDRSHH NQPGTWHRHQPGPRGPAKPAR PWRAGTHLPTGTASVRHPCLG QPLRAEPRPAVPDAPRNQNLPF PAPQTDSALPGAVRG*RAR*YH *SRTTTPPPDEHDHSWARACSP
9191	39559	B	9250	1	2681	

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9192	39560	A	9251	933	1828	VSRIHVLVWQPRMPAPPAVDW LTY/GSGIL/SGNKLVGTPLEVEY TRDSLH/RETLRSFASMAGSNA AY/*LTSTDTPAGQLQSQH/LNS LVYDRDYGWSNDGD/LVRISGP RQTREYGYSATGRLESVRTLA PDLDI/RIPYATDPAGNRLPDPE/ LHPDMRADGGATGQKVEPEYT PARKAHLHYHTTGDRCRWRLSA KTAIRVERGI**MGQPAY*GEPH HVYQPR*TWHWRWRQKGRKS ASGRRYLRPINPNNVGRENQRP TSPDGTHTMAPISLMAWQPIQLR YRGHVRQRLSAVGERIYRYLPP
9193	39561	A	9252	1	1409	MECDASALLRYDSRQFIPLAID GLAKDVLGRRFALEGHPRLEAI ARAGDVVRFPADSELPDPYDG LIPGQESLKVHACVGLPLFAGQ NLIGALTLDGMQPDQFDVFSDE ELRLIAA\LAAGALSALLIEQL ESQNMLPGDATPFEAVKQTQM IGLSPGMTQLKKEIEIVAASDLN VLISGETGTGKELVAKAIHEASP RAVNPLVYLNCAALPESVRKSE LFGHVKGAFTHAISNRSGKFEM ADNGTLFLDEIGELSLVLQAKL LRVGQYGDQIRVGDDRCRLVD VRVLAATNRDLREEVLGRFR ADLFHRLSVFPLSVPLRERGD DVILLAGYFCEQCRLRQGLSRV VLSAGARNLLQHYSFPGNVREL EHAIHRAVVRLARATRSRGEVIL EAQHFAFPEVTLPTPEVAAPV VKQSLREAT*AFQRETIRQALA QNRKWTACARMLETSVANV HRLGKRLVLKK
9194	39562	A	9253	389	799	PQFLIPSVTPCMFIHPLDAK/AR DLRRGDKVKVVSRRGEVISIVE TRGRNRPPQGLVYMPFFDAAQ LVNKLTLDATDPLSKETDFKKC AVKLEKACPYDTLKLATLASG LSAGTPYFVARDIPCCEMCEIPC AKVCPS

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9195	39563	A	9254	588	1500	RHPPIPAKIGLHAVAQDRA\NN MQAGPNINEERMMPGWRDPRNF IIVSDPYPTVSALAADL/TPEVSK FPGSELAEDQLNDESRELGFYL QKGLFEEYAWFGRGHGHD LAP FDDYHKARGLRWPVVNGKET QWRYSEGNDPYVKAGEGYKF YGKPDGKAVIFALPFEPAAEAP DEEYDLWLSTGRVLEHWHTGS MTLRVP*LHRAFPDAGLF\YPL DAKARDLRRGDKVKVVSRRGE VISIVETRGRNRPPQGLVYMPFF DAAQLVNKLTLDATDPLSKET DWP HFSSTYNGPLLQGANKGIL VQQH
9196	39564	A	9255	1	1698	MEREQDSIIMDAATTRNLEITQ NLAGGAENTLASVLDCTVTPM GSRMLKRWLHMPVRDTRVLE RQQTIGALQDFTAGLQPVLRQV GDLERILARLALRTARPRDLAR MRHAFQQLPELRAQLETVDSA PVQALREKMGEFAELRDLLER AIIDTPPVLSWMSGARWLTARP IICNYEVDRTIRHTKMNVGDVQ RLSVAVVVNYKTLPDGKPLPLS NEQMKQIEDLTREAMGFSEKR GDSLNVVNSPFNSSDESG
9197	39565	A	9256	590	910	SCSIQLSPWILPRTVMCVPGFTC ELLST*WLAKEPLKTVSWITIRS FTAETSTFGPTMTASMTFLPTY CSIIASLLSSFKLAAAILNSLPQI GRYITIGSGVRRNA
9198	39566	A	9257	1	854	MANRMILNETAWFGRGAVGA LTDEVKRRGYQKALIVTDKTL VQCGVVAKVTDKMDAAGLAF AIYDGVVANQH YCRQDSSDEF AEMSLIEGRRGLRRRPLWEFEI DTARQQLNLQFGTRDLVGFGV ENAPRGLCAAGCLLQYAKDTQ RTTLPHIRSITMEREQDSIIMDA ATTRNLEITQNLAGGAENTLAS VLDCTVTPMGSRMLKRWLHM PVRD/DPRVA*APANYWRIAGF HRRATAGTASGRRPGTYSGTSG FTNCSPTRSGPYAPRFPATAGA ACAVRNCR
9199	39567	B	9258	122	868	

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9200	39568	A	9259	2610	2897	PNLYLRFFFFFFLQESHSVTQA GVQWCNLSSLQPLPPGFKQFSH LTG\LPKCWDYRSKRPRPANQT SILDVKEDPY*LHWPRSNRDIK LNLVANP
9201	39569	A	9260	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RLLRRAFIDGGANSS GTGICRDAFNRIHWGTGRTP DVDSGEHRKTAEQRRDGAVR
9202	39570	A	9261	846	1022	
9203	39571	A	9262	1	1339	MNALSKARQYVEEFDGNIAFSI FSGKPGTGKNHLAAAICNELL RERNLGESEIHTTSDHMTATL PGETQTWPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDESLVIKES DIEPLIVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTPTEVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAKAGTGIDELLA DAILLQAEVLELKAVRKGMA GAVIEFPSLDKG\RGPIVTVLV REGTLHKGDIVLCGFYGRVRA MRNELGQEVLEAGPSIPVEILGL SGVPAAGDEVTVVVRDEKKARE VALYRQGKFREVKLARQQKSK LENMFANMTEGEVHEVNIVLK ADVQGSVEAISDSLLKLSTDEV KVKIIGSGVGGITETDATLAAAS NAILEGLFTLTSQDEFVIAPGFS TDPLEEQHSVVSGLLHKYHNR ALLLVKGGCAVNCRYCFRRHF PYAENQGNKRNWQTALEYVA AHPELDEMIFSGGDPLMAKDH ELDWLLTQVVHQHDVGRRVQ RLPFIHDALFHQQFFNQHTTF GQVHLARFFVHREVDLSILFRRIS VLKKMMSPHRVKDRCYCAQFI

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9204	39572	A	9263	922	2357	GKGNDEKKLVSDQ*MGTA*RQ RIHIPPSIIPLLW/YPEGPSVSRPE AGGYNSLLMVTHGKVINNGRG ILIESDIEPGDAR*SSGSCARHGL VFWLCSCRRCMPQTIEAIQHPN A/VAVNKIDRPEADPDRVKYVL SQYGILPEEWVGESQFVHGS AK AGTGIDELLDAILLQAEVLELK AVRKGMASGAVIESFLDKGRG PVATVLVREGTLHKGDIVLCGF EYGRVVRAMRNELGQEVLEAGP SIPVEILGLSGVPAAGDEVTVVR DEKKAREVALYRQGKFREVKL ARQQKSKLENMFANMTEGEVH EVNIVLKADVQGSVEAISDSLL KLSTDEVKVKIIGSGVGVIEAES LDLRYYSVIYNLIDEVKAAMSG MLSPCLKQIIGLAEVRDVFKSP KFGAIAGCMVTEGVVKRHNPIR VLRDNVVIYEGELESRRFKDD VNEVRNGMECGIGVKNYNDVR TGDVIEVFEIIEIQR TIA
9205	39573	A	9264	1	748	
9206	39574	A	9265	923	1387	PPNLARCSPSAMARQSPIRSPRR PLAPSPALRAPSPAPPHAARLA VPRQA*GLLLLLALIAVSTHIEMI SNTLAMGWNSPLTTVLALLAC GFACFIEMGKIPFDVAASWIIMI WSQSSTCTAPTLKPLRSVTLMR LTPVSARDLVGYFATAVRLP
9207	39575	A	9266	352	478	CDPTQRKPLYWLQALRRGLPI WRNQRFKAVR*MAMAPMFS
9208	39576	A	9267	54	811	HTTGGNPLYGI/SRQIAR*QSRV/ GPGFCQDYRDIHKLFKRQEVAP TSSGLMFRLMPWVLISMLVLA MALPLFITVSPFAGGGDLITLIY LLALFRFFALSGLDTGSPFAGV GASRELTGILVEPMLILSLLVL ALIAGSTHIEMISNTLAMGWNS PLTTVLALLACGFACFIEMGKIP FDVAEAEQELQEGPLTEYSGAG LALAKWGLGLKQVVMASLFV DLFLPFGRAQELSLACL TSLV VTLLKRLL

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9209	39577	A	9268	2	627	CGSIIAL/VAIFKSFFGHYLGTL GLNGLVLKFGYKGDGTKVSLG KLNTISMIFIMGSTWVVAYANP NILDLEAMGAPIIASLLCLLPM YAIRKAPSLAKYRGRLDNVPH AITRVDLKEDGKGLKIVRQSLP YGTASGTHGLYFCAYCARLHNI EQQLLSMFGDTPDAIKAYQSFLA RSAFAVSQCIPVNTVYRAYSVI QNWIAITIRHV
9210	39578	A	9269	2648	3072	LSRTGKTTFIT/LEYAASIIAL VAIFKSFFGHYLGTLGLNGLV LKFGYKGDGTKVSLGKLNTIS MIFIMGSTWVVAYANPNILDLI EAMGAPIIASLLCLLPMYAIRK APSLAKYRGRLDNVFVTIGLL TILNIVYKLF
9211	39579	A	9270	467	614	VPLAVPYGRLWRTIFSLPSSFR STRIE*YESMLGRFFERTACLQQ KQF
9212	39580	A	9271	1	846	MSYLVWPFIASLVLSLSLIPYW NSAVIDQVDLGLSALTGHDGILI TVWGGVSTK\VFPLNFPPNVFSF GVSK\RKK*KKDFGRDFTERKC SQIISRASMLMVAVVMFFAFSC LFTLSPANMAEAKAQNPVLSH LANHFASMTGKTTFISITLEYA ASIIALVAIFKSFFGHYLGTLG LNGVLKFGYKGDGTKVSLGK LNTISMIFIMGSTWVVAYANPN ILDLIEAMGAPIIASLLCLLPMY AIRKAPSLAKYRGRLDNVFSTV IGLLTILNIVYQLF
9213	39581	A	9272	95	456	RAISMSFRMERPCCLSLPSSLCIS STRVTASSPLSGCSSCTLLWISW GRMVRNCSNT/MQLQDLLLRA HLRPPMAKLLEPAEGFPGTS CLLEAPSTIRDVVLIASQPASQ PASQQGSI
9214	39582	A	9273	1	1241	

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9215	39583	A	9274	3	1608	SRGFPRREFSGPSIKKKVDAPTQ AQWPVHAVITNSTYDGLLYNT DWIKQTLDVPSIHLDSA WVPYT HFHPIYQGKSGMSGERGAGKVI FEPQ* AHRMLAALSQGSLLIKG EYDQEAFFSEAFMRHSPSSPSYPI GG\SVETAAAMLRGNPGKRLIN RSVERALHFRKEVQRLREESDG WFFDIWQPPQVDEAECWPVAP GEQWHGFNDADADHMFLDPV KVTILTPGMDEQGNMSEEGIPA ALVAKFLDERGIVVEKTGPYNL LFLFSIGIDKTKAMGLLRGLTEF KRSYDLNLRKINMLPDLYAEDP DFYRNMRIQDLAQGIHSRRVTA SVSSGSQANQQVNFIGDQSTAA LTLSPSGDITVTNTAPQYMTA TLQDKNGNPLKDKEITFSVPND VASKFSISNGGKGMTDSNGVAI ASLTGTLAGTHMIMARLANSN VSDAQPMTFVADKDRAVVVLQ TSKAEIIGNGVDETTLTATVKD PSNHPVAGITVNFTMPQEGVYA MSLEYIILTFIALNGSRMWINS AREKRTQRND
9216	39584	A	9275	106	709	LRS AEDNDTREKNKQTNRS KLRLVETSGSPPTSSSQTPDPAF RYPKKY\CVEDCS\YRPE*PRITP DNRLLYGGGVVYGARDPDVVE RLVVPKLLKTFPQLKGVKIDYR WTGNFLLTLSRMPQYGRDNTNI YYMQGYSGHGVTCNHLA AELLRGDAERFDAFANLPHYPF PGGRTL RVPFTTKSAAYYSLR DRLGV
9217	39585	A	9276	140	558	RKPHRQRGEKAGRNRSVDGCC EKAMSVIIVGGGMAGATLALAI SRLSHGALPVHLIEATAPESHA HPGFDGRAIALAAGTCQQLARI GVWQSLADCATAITTVHVSDR GHAGFGTLSRKITTWGL*QRSW ARWIWYPFAKNYHLGALTTVV ELQMGGKRLF
9218	39586	A	9277	3799	4086	
9219	39587	A	9278	3017	3184	
9220	39588	B	9279	1	1050	
9221	39589	B	9280	1	1455	
9222	39590	A	9281	374	506	RCIALIAWLTLPVLRVTLK*RW RVARR*RAACW*S*WHHSALA P
9223	39591	C	9282	47	406	

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9224	39592	A	9283	1	4749	
9225	39593	B	9284	507	3568	
9226	39594	A	9285	101	638	RQKYSDWSSALVPTAGEPTRH TQTTRAGIAHA\EADFAADILFL LCGKDISTAGGFSFV*LADNKQ HLMPCVCFANHLTVKM/PHQSPV PDH/QALISHRJRSSRGSCSRYS DNSVSRTPLSPTPGRSTMVICS PICRRKRKGSRVQAATSLTGDT SPANRALQRLLPAPVLPMMPI TGS
9227	39595	A	9286	271	532	
9228	39596	A	9287	643	768	
9229	39597	A	9288	1	1948	MCSHAAGCTIPDVEHWTRINR KVPRLVSVLPNGPDYHPTVRAF LAGGVPEYMLHLRDLGLLHLD AMTVTGQTVGENLEWRPEPGA FRQCLREQDGVPEDDVILPPEK AKAKGLTSTVCFPTGNIAPEGS VIKATAIDPSVVGEDGVYHHTG RVRVVFVSEAQAIIKRVVIVA CGFSPTRTAHAASDIDITNTVDL RNRRSQLRRGEIVQF/IPANKYR TSA*GS*LAHPTGSLCD*VGRL DIPLAANFVQR*SPPGISPTPV
9230	39598	A	9289	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RRLRRAFIDGGANSS GTGICRDAFNRIHWGTGRTP DVDSGEHRKTAEQRRDGAVR
9231	39599	A	9290	846	1022	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9232	39600	A	9291	1	1336	MNALSKARQYVEEFDGNIASFIFSGKPGTGKNHLAAAICNELLLRERNLGESEIHITTSDHMVTATLPGETQTWPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFTVGGNYGGTCLRGDESLVIKKESDIEPLIVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLGRIIRRT RRIRHKQSARCYNLRFKPTCAIT QTPTEVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAKAGTGIDELL\ DAILLQAEVLELKA VRKGMAS GAVIESFLDKGRGPVATV LVRE GTLHKGDIVLCGF EYGRVRAM RNELGQEVLEAGPSIPVEILGLS GVPAAGDEVT VVRDEKKAREV ALYRQGKFREVKLARQQKSKL ENMFANMTEGEVHEVNIVLKA DVQGSVEAISDSLLKLSTDEVK VKIIGSGVGGITETDATLAAASN AILEGLFTLTSQDEFVIAPGFST DPLEEQHSVVSGLLHKYHNRA LLLVKGCCAVNCRYCFRRHFP YAENQGNKRNWQTALEYVAA HPELDEMIFSGGDPLMAKDHEL DWLLTQVVVHQHDVGRRVQRL PFIHDALFHQQFFNQHTTFGQ VHLARFFVHREVD SILFRISVL KKMMSPHRVKDRCYCAQFICP
9233	39601	B	9292	1	2890	
9234	39602	A	9293	1	822	ITQYCDSTICLSKGLGTPVGSL LVGNRDYIKRAIRWRKMTGGG MRQSGILAAAGIYALKNNVAR LQEDHDNAAWMAEQ\LR ETG\ A\DV MRQDTNML\FVRVGEEN AAALGEIT*KPRNVLI\NASPIV RLERDVPQRILVLGASGYIGQH LVRTLQQGHQILAAARHVDR LAKLQLANVSCHKVDLSWPDN LPALLQDIDTVYFLVHSMGEAA IYRSSAGVASVSSVFRYCLRPSY DPRVFPCFLCCRALLVLPCLRIY SPLSFALVLSLAPIK
9235	39603	A	9294	1565	1825	SRMCVAIRSRNQSRCEITIAQPG NSSRAFSSARRVSISRSLVGSSSS SMLPPTCSSFARCRPRSPPESS PTRLP*STPLKLRPT

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9236	39604	A	9295	236	742	VATRCSPSPSPSLSPSLSLRVMIP TTSAYSFMITAKSSPAVLKLSN ASERVNVSGTISVLRICPLFSA RLWLASTRFSRSLEST*PMMWS ISSLQTRNLECGCSATLFFRLCS SSWRN/TNDVFTA VTLITERDG IPAQRRFQSARVPVYVTRPPAH RLPLPRRCHQK
9237	39605	B	9296	1	951	
9238	39606	B	9297	1	666	
9239	39607	A	9298	761	1162	IILGSM AIFTILILPIHEQGMFFHL FVTSFILLSSGL*FSLKRSFTSLV SCIPRYFILFVAIVNGSSLVIWLS VFLLFVYRNACDFCTLILYPETL LKLLISLRRFWAETLGF SKYTIM SSANRDNL TSSFPN
9240	39608	A	9299	82	160	
9241	39609	B	9300	64	477	
9242	39610	A	9301	408	507	LLPLFQNL LLVYSGI*LLPGLVW KGCMPGIYP
9243	39611	A	9302	1	3141	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRVDLIS NVAGDRVITYRITKGEDLREQG YMGLHTVGRGERSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRVL
9244	39612	A	9303	1	983	MVRASGYLQTLDDFNHIVLKA SENGVPVYL RDVAKVQIGPEM RRGIAELNGEGEVAGGVILRS GKNAREVIAAVKDKLETLKSSL PEGVEIVTTYDRSQLIDRAIDNL SGKLLEEFIVVAVVCALFLWHV RSALVAIISLPLGLCIAFIVMHFQ GLNANIMSLGGIAI AVGAMVD AAIVMIENA/R*TAGRVAAPAS* RHAG**NALAGQEGR LFGPLAL HQNVCDGGCGAAGDRSDPD GLLDPWQNSAGKQ*PAQSLFDS CLSSAVAESTALAENHAAGGG AFGADGSLAAQ*SSPGEFLPQIN EGDLLYMPCDAAQGIPQQR
9245	39613	A	9304	362	436	
9246	39614	A	9305	101	208	
9247	39615	C	9306	1	882	
9248	39616	B	9307	1	822	

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9249	39617	A	9308	668	826	VNSHSQLLQRE*NT*ESNLQGM *RTSSRRTTNHCSRK*KRIQTNG RTFHAHG
9250	39618	A	9309	497	1042	LPRIPTVLTSGVRRDGYRRFG RRPSG*PGNWSSSPVEKSATRT LRITGTSAIPSEAITGSSAVVRR VPAGKTTAPTEIKSTPVSANSRS VLSVTLPDTSSSALPLVRLTASR ICSVSKLSSMMISAPAFRASSSS SRFSTSTSTGASGCSQDAFSTA WRTEPEAHWFSLIRKASESPRR
9251	39619	C	9310	1	3447	
9252	39620	A	9311	570	647	
9253	39621	A	9312	1071	1323	RPPPHRLSGCYHPSHRRPVHGF HHA*RQRQFRR*TVDTLPADAP LPSPHPAHFRPL/TSIFCPVSTMA DNASM*RNSCCRLSARG
9254	39622	B	9313	1	2585	
9255	39623	A	9314	133	357	SSFFQFCEEIHW*LDGDGIESIN YLRQ*GHFHKIDPSYP*AWNVL PFVCVLFHFIEQWFVLLLEVL HIPCKLYS

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9256	39624	A	9315	1	2680	MLVLPLFQPFMRILDHDDSSID HRPDGNRNATQRHNIGIQSLEV HDNKSNTQPQRQRNNRHQORRA HMPEKQRTDYRRDPLESPKAA AACLFPAIADPNTPPVFTPPASL PTTGM/FDSPPFRRDA*MVMRS LIRSMTVARAVIGVAICNKGLP ATMMALAAQHNIATVLVPGGA TLPKADGEVNGKVQTIGARFA NGELSLQDARRAGCKACASSV RRSCQFLGTAGTSQVVAEGLGL AIPHSALAPSGEPVWREIARAS ARAALNLSQKGITTREILTDKAI ENAMTVHAAFGGSTNPLLHIPA IAHQAGCHIPTVDDWIRINKRV PRLVSVLPNGPVYHPTVNAFM AGGVPEVMLHLRSLGLLEDV MTVTGSTLKENLDWWEHSERR QRFKQLLLDQEQINADEVIMSP QQAARGLTSTITFPWQYAWIL HPDLDPETLLKLLISLRRFWAET PVGKNRITQMTNARHRTGFQG VTIHHTGVQFMGFITRKDSANS GVKQWTLFQQTHFRHHIQR FARFQHFLPGFNNGRQRLDVAS VFMEFTTGLMSLDTALNEMLS RVTPPLTAQETLPLVQCFGRILAS DVVSPLDVPGFDNSAMDGAV RLADIASGQPLPVAGKSFAGQP YHGEWPAGTCIRIMTGAPVPEG CEAVVMQEQTEQMDNGVRFT AEVRSGQNIRRRGEDISAGAVV
9257	39625	B	9316	1	2577	
9258	39626	A	9317	2	772	AFGASLAQDKPNTGTG*KSPSH PLLRVLDIGKICHLARKVGAVS VVDNPFIRPALQNPLALRADLV LHSCCKYLNGHSDVVGAVVIA KDPDVVTELAWWANNIGVTG GAFDSYLLLRGLRTLVPRLMELA QRNAQAIVKYLQTQPLVKKLY HPSLPENQGHEIAARQQKGFGA MLSFELDGDEQTLRRFLGGLSL FTLAESLGGVEKLISHAATMTH AGMAPKARAAAGISETLLRIST GIENGENLIADLENGFPA
9259	39627	B	9318	68	1895	
9260	39628	A	9319	1	636	
9261	39629	A	9320	1	942	

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9262	39630	A	9321	479	969	MPSTSQ*I/ISED FVELNAARYR DEEIQRTPQRYSSRRPTQRHIV RFTKVEIKEKMLRAAREKGGV AHKRKPIRLTADLSAETLQARR EWGPTFNILKEKNFQPRISYPTK LSFISEGETKSFTDKQMLRDFGT TRPPLKELLKEALNMERNRY QPQQKHTKL
9263	39631	A	9322	1	652	MGKKQSRKTGNSKNQSASPPP KERSSSRAMEQSWTENDFDEL REEGFRRSNYSELKEEVQTHGK EDKNLEKKLDEWLARIINAES LKDLMEKTKARELCDECTSL SRFDQLEDGVS VMEDEMNMK SEGKFREKRIKRNEQSLQEIWD YVKKPNLCLIGVPESDRKNGTK LENTLQDIIQENFPNL SGQANI H IQEI\QRT PQRYSLRRATP\RHLI VRFTKVEMKEK\MLRAAREKG R\VTHKGKPIRLTTADLSAETLQ AR/RTEWGPIFNILKEKNFQPRI SYPAKLSFISEGEIKYFIDKQML RDFCHHQGLPLKELLERKALK HGKGNNQ*PPPKERSSSRAMEQ SWTENDFDELREEGFRRSNYSE LKEEVQTHGKEDKNLEKKLDE WLARIINAESLKDLMEKTKA RELCDECTSLSSRFDQLEDGVS VMEDEMNMKSEGKFREKRIK RNEQSLQEIWDYVKKPNLCLIG VPESDRKNGTKLENTLQDIIQE NFPNL SGQANIHIQEIPENATKIL
9264	39632	A	9323	403	410	VFLIRWGGKPLKRKLYFLHCSI TQALV*ACQGKYLGI VGAKNI KYIDFFITASRYLRMLAQVFE*I LLLREVTRY
9265	39633	A	9324	174	1252	

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9266	39634	A	9326	1	1049	MHRSDMSCPDKVDILDTTAFRI AINEVKHSLTSVTVTKVLDMF ISRSSLFPIDDDGLDDGHSDQVG VLNSPTCYSAHQNGERIERFSR KV FVGGLPPDIDEDEITASFRF GPLVVDWPHKAESKSYFPPKG YAFLLFQEESVQALIDACIEED GK\LYLCVS*PLLSKDKPSSKYV PWNLSDSDFVMDGSQPLDPRK TIFVGGVPRPLRAVELAMIMDR LYGGVCYAGIDTDPELKYPKA PGRVAFSNQQSYIAAISARFVQ LQHGDIDKRVEVKPYVLDDQM CDECQGARCGGKFAPFFCANV TCLQYYCEFCWANIHSRAGRE VHIPLVTESAVAAPRIHIPWT
9267	39635	A	9327	2	126	
9268	39636	A	9328	1	1327	IASNSWNASSSPGEAREDGPEG LDKGLDNDAEGVWSPDIEQSF QEALAIYPPCGRRKIILSDEGKM YGRNELIARYIKLRTGKTRTRK QVSSHQVLARKKVREYQVGIK AMNLDQVSKDKALQSMASMS SAQIVSASVLQNKFSPPSPLPQA VFSTSSRFWSSPPLLGQQPGPSQ DIKPFAPAYPIQPPLPPTLSSYE PLAPLPSAAASVPVWQDRTIAS SRLRLLEYSAFMEVQRDP*TRT SKHLFVHIRHTDRNPRRFFRTPP LGP\VDVR\QIYDPNFPEKKGGL KELYEKGPNAF\FLVKFWADL NSTIQEGPGAIFYGVSSQYSSAD SMTISVSTKVCSFGKQVVEKVE TEYARLENGRFVYRIHRSPMCE YMINFIHKLKHLPEK YMMNSV LENFTILQVVTSRDSQETLLVIA FVFEVSTSEHGAQH HVYKLVK
9269	39637	A	9329	2	339	
9270	39638	A	9330	1505	1876	TYGCASPSRKPRVMPLVTAQVP ITALRVNSSSIPAQSAVETTSNR PPTTGVPAPRPVRAAV*AVISPO ISADPTTGGA*LISAIPSQSVRH GSYSRLML*RLDSEILLSSQPL TPVKHQRR
9271	39639	A	9331	1	1710	
9272	39640	A	9332	1	1191	

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9273	39641	A	9333	838	1365	STETLSPLPATPGEVTLRHLDV VSAEQQMFSGLVEKIQVTGSEG ELGIYPGHAPLLTAIKPGMIRIV KQHGHEEFIYLSGGILEVQPGN VTVLADTAIRGQDLDEARAME AKRKAEHISSSHGVDVYAQAS AELAKAIAQLRVIELTKKAM*H RLEKHKSQSGNRLAFFCACDPS
9274	39642	A	9334	3	601	MLSAVGYP/TLAEEMGVLQE RIPSTKTGSITSVQAVYVPADDL TDPSPATTF AHL DATVVL SRQI ASLGIYPAVDPLDSTSRQLDPL VVGQEHYDTARGGQFILARYQ ELESLL\AILGMNDLSEEDKL VV ARARKIQRF LSQPF FVAEVFTGS PGKYVSLKDTIRGFKGIMEGEY DHLPEQAFY MVGSIEEAVEKA
9275	39643	B	9335	681	1071	
9276	39644	A	9336	203	2189	VASSARRGLPVHGPA PLQGP GN SQDRL/ESGTNRCGLRGPLVKG GKGGRFPSARLIQTVKKGGTPS RDHA\EP SGY\SVSAGVGE\RTR KGSVFAHEMPDCNVIDKVSLV YGQMTEPPGNCMRVALSGLTM AEKFRDEGRDVLLFVDNIYRYA LAG*ERFATVGR*ASN/AVGIQP TLAEKMGVLQERITSTKTGSITS VQAVYVPANDLTDPSPATTF A HLDATVVL SRQIASLGIYPAVD PLDSTSRQLDPLVVGQEHYDTA RGG*SI LQR F\QELKDFMALP/G LSDELSEEDKL VVARARKIQRF LSQPF FVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF YMGDMAMTYHLDVVS AEQQ MFSGLVEKIQVTGSEGELGIYS GHAPLLTAIKPGMIRIVKQHG H EEFIYLSGGILEVQPGNVTVLAD TAIRGQDLDEARAMEAKRASG KVKPSIMQSLTPEKIAAILPLQF FPQPADFTGPYVMLTSRRNNRA LSRCDDQTLMPGLAIRGIRHRH QQAGVRILLNNAIEHVVDGEK VELTLQSGDTLQADVVIYGIGIS ADEPLAREANLDTANGIVIDEA CRTCDPAIFAGGDVPITSSLINV VDEIIHDILLTQPVATRYCIVKVI FEAVMILRDSGGAPFCSNGMAT

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9277	39645	A	9337	905	2319	SRQAQWKGV PSTFSVINYHSLQ KRTTNLTHRQLLNLLSTVLYCS CPSIQKLLMLQTGQPSGVGLV DLPLKAMSRPALPNATAALPTG TRTQPPSTPLLTRLPSHRLLLH SGF*AAALLGVSEMTIRDLNN HSAPVLLGGYIVLEPRASASHY LLSDQKSRLVEEKRAAKLAA TLVEPDQTLFFDCGTTTPWIEA IDNEIPTAVCYSLNTFLALKEK PHCRAFP CGATPFSNPSIFSKRV NNFCRDIAFYYSAGVHVSKGV TCFNLKRWPVKQWAMSMAQK HVLVVDHSKFGEVGPVCMGDL KRFDIVVRECCPEDEYVKYAQT QRIKPDKVS RHPVIIRLREPGLE PVMEFHHPVLPQRTTESAVVHI AHTRKSWRPEHSAPVLIQTSPV ERGPQYIQCYQLSLTSEENNQP DTQTTTKPAQYSSILFLSKYPKV IVDAPDRSTQRGWSSGLATQSN EQACTTKCNSCTANWHQNTTT FNSTANPSTFKPPTSAAALRVLSL WTGNHCDWCFIRYWRLTPNW QRFRRVGRTERATTHNRLQAF GGHTQGLSPGPRRWLHEQRFP TSDTGGHTADDFRKLDPICQGP YGSHRHSVKSEVNFEKRYAF APAASFRTYTVLIRFCAPPNTGRF LLTGTPMLSYRHSFHAGNHA DVLKHTVQSLIIESLKEKDKPFL YLDTHAGAGRYQLGSEHAERT
9278	39646	A	9338	98	596	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNELSENIIL EPAGR TTAPTIAAALANRHS PESAPMLVLATDHVIANEDAV RAPVKNAIPYPKKGKLVTFGIG LDGRVPRYNM
9279	39647	A	9339	2	437	LECPGRSTANCSPRARATSLLL LTHVHGESRDRAQEMVDLLAQ YEQHGLQLNSRELDPHLPLYLE YLAQLPQSEAVEGLKDIAPILAL LSARLQQRESRYAVLFDLLKL ANTAI DSDKVAEKIA/VRSAR*Y AAGAGCCLGRRAG
9280	39648	A	9340	152	334	HLSPQYGSIPRVISRMGGKLIIM DHFHYGRDSILLSME*TLALDA NLQFLYVVLLPNYYL
9281	39649	B	9341	1	1401	

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9282	39650	A	9342	86	2063	
9283	39651	B	9343	1	885	
9284	39652	A	9344	1	101	MDDNITYITTFICNPLNLSPQRR MLIITGPNMGGKSTYMRQTALI ALMAYIGSYVPAQKVEIGPIDRI FTRVGAADDLASGRSTFMVEM TETANILHNATEYSLVLMDEIG RGTSTYDGLSLAWACAENLAN KIKALTLFATHYFELTQLPEKM EGVANVHLEDALEHGDTMAFM HSVQDGAASKSYGLAVAALAG VPKEVIKRARQKLRELESISPNA AATQVDGTQMSLLSVPEETSPA VEALENLDPDLSLTPRQALEWIY RLKSLGKTMPTSTRYQKINAAH YRHIWVVGDIHGEYQLLQSRL HQLSFFPKIDLLISVGDNIDRGP ESLDVLRLLNQPWFTSVKGNH EAMALEAFETGDGNMWLASG GDWFFDLNDSEHQEAIDLLKLF HHLPHIIEITNDNIIYAITTCVGN ARRAHAVHFCGDVARLLTCQI NIYRGQFRRLPRTFHRLLTKL RDLILRLSAGNLQCCPDRAWRD NIHPNTFLRDLFCQATAVVQNR RLRSRIGDRFLGAVERRFGNDL PSSPVEWLTNGSCYRANETRQ FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDYISIMPKPDGLT AAKNLAFAFEHYNEWHPHRAN PITYQAVCANHYRTLNGTMT NTG*QYNVYHIYLQPAESVAA APHVDHHRSEHGR
9285	39653	A	9345	1062	1179	PRFVPILAPYAPVRSVCLR*V*T DLPEYGHILFQPADR
9286	39654	B	9346	1	2439	
9287	39655	A	9347	136	629	RSVTPVTDIVKLLEFTRLRLPGY TKSIE*TNITFQCAIAAA*KNSVS TPRGGGTGTNGQALNQGIHVD MSRHMNRJIEINPEEGWVRVEA GVIKDQLNQYLKPFYFFAPEL STSNRATLGGMINTDASGQGS/ LGVRVLLGGDILDLTQPLPVEL AETLGKSAE
9288	39656	B	9348	1	4653	
9289	39657	C	9349	584	819	

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9290	39658	A	9350	1	765	MQEWGRYTILSGCCNSALKGD VCLLYGFRVAGRRQASELQELT IGYRAQKNRVSSWCYCHFRQM AKAQHIKGFNLRLRKTAKK*GF QLVLLPFSANGK\AQHIKGFNL RLRKTAKKTRDFLTRMPKLGM TMVGVDPALVLCYRDEYKLAL GEERGEFNVLLANEWLASALES QPVATVSGESWYFFGHCTEVT ALPGAPAQWAAIFARFGAKLE NVSVGCCGMAGTYGHEAKNH ENSLGIYELSWHQAMQRLPRN RCLATGYSCRSQVKRVEGTGV RHPVQALLEIK
9291	39659	A	9351	1	1710	
9292	39660	A	9352	1377	1712	IFRASLNQLLFCGLLAGRNHRQ RSVRALSQRKMVPTDRK*RCA RRAAR*PSARVL*SGE*TDRQH AD*PTIR*RRSWYLRPAVYASV RQSDRLYSDEYHW*PVRLQRY VRR
9293	39661	A	9353	203	1293	VASSARRGLPVHGPAPLQGPGN SQDRL/ESGTNRCGLRGPLVKG GKGGRFPSARLIQTVKKGTPS RDHAIIEPSGYSVSAGVGE\RT EGNDFYHEMTDSNVIDKVSLV YGQMNEPPGNRLRVALTGLTM AEKFRDEGRDVLLFVDNIYRYT LAG*ERFATVGR*ASN/AVGYQ PTLAEEMGVLQERITSTKTGSIT SVQAVYVPADDLTDPSPATTFA HLDATVVLSRQIASLGIYPAVD PLDSTTRQLDPLVVGQEHYHTA RGG*SILQRF\QELKDFMALP/G LSDELSEEDKL VVARARKIQRF LSQPFFVAEVFTGSPGKYVSLK DTIRGFGKIMEGEYDHLPEQAF YMVGSIEEAVEKAKKL
9294	39662	B	9354	1	505	
9295	39663	A	9355	604	789	TMVASGSRRMTST*SRGSVNG CRTILRWKRHSSPLKIKRKQKS L*TMPSF*RLPAENSLFEI

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9296	39664	A	9356	1	1514	SVAVLRE*APKIRIQLATMPELA DASSDQQDNGAEMNLVYDRD TMARLGIDVLAANSLLNNAFG QRQISTIIYQPMNQYKVVMEVD PRYTQDISALEKMFVINNEGKA IPLSYFAKWQAPANAPLSVNHQG LWRAL\TIWFTLPTGKSLC\DP AAIDRAMTQLGVPSTVRGSFAG TA\QVFQETMNSQVILIIAAIAT VYIVLGILYESYVHPLTILSTLPS AGVGALLALELFNAPFSLIALIG IMLLIGIVKKNAIMMVDFALEA QR\HGNLT PQEAIFQACLLRFRP IMMTTLAALFGALPLVLSGGDG SELRQP\LGITIVGGLVMSQLLT LYTTPVVYLFFDRLRLRFSRKP KQTVTDTRWQLWIVAFGFFMQ SLDTTIVNTALPSMAQSLGESPL HMHMVIVSYVLTAVMLPASG WLADKVGVRNIFFTAIVLFTLG SLFCALSSTIRIILRFVSLHMR WQFRDLTFWQMRFRNTNPITSG GSDDSLMNQSHQRSVSSSI
9297	39665	A	9357	3218	3337	
9298	39666	A	9358	252	771	RRCQILLSGSLHSSWRTLPGHV *QLASAHRRPRFR*LPGLEPGEL FVHRNVANLVIHTDLNCLSVV QYAVDVLEVEHIIICGHYCGCG VQAAVENPELGLINNWLLHIRD IIHGWAYGIHDGLLRDLDTAT NRETLEQRYRHGISNLKRDVHF TTGRFIQQRTRNRQLRFAQA
9299	39667	B	9359	604	831	
9300	39668	B	9360	1	1104	
9301	39669	A	9361	242	337	LTVIHGVSAKTVILSSAVPIQ*K TVRRVSRR

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9302	39670	A	9362	2208	3411	LAADHRRRRAVQRPCNGGQSV QSTDEAAGRLSHADTHPGRPA RALPGDCRPETLLRTAGVAE*T KALYTLRSEKTRERPMDKQQA SDEKHRRFHDKESDFLA/FVNL WNY/LGEQQKALSSNAFRRLCR TDYLNYL RVREWQDIYTQLRQ VVKELGIPVNSEPAEYREIHIAL LTGLLSHIGMKDADKQEYTG RNARFSIFPGSGLFKKPPKWVM VAELVETSRLWGRIAARIDPEW VEPVAQHLLIKRTYSEPHWERAQ GAVMATEKVTVYGLPIVAARK VNYSQIDPALLHDTIELGTSPAF LITRWGFRNL SRTSGGPRQEP RRKEIAMELVLKDAQSALT VSE TTFGRDFNEALVHQVVVAYAA GARQGTRAPKTRA AVTGMPT LYAVGRLSRIPMDT
9303	39671	A	9363	79	559	TLSPGSINPFKPN S*DSVPMTL/ RRFIEVRVFQ QIIHMRQ RPAHL W
9304	39672	A	9364	1	655	THWER/A/QGAVMATEKVTVY GFRIVAARKVNYSQIDPALCRE LFIRHALVEGDWQTRHAFFREN LKLRAEVEELEHKSRRRDILVD DETLFEFYDQRISHDVISARHFD SWWKVSRETPDLLNFEKSM LI KEGAEKISKLDYPNFWHQGNL KLRLSYQFEPGADADGVT VHIP LPLLNQVEESGF EWQIPGL/RRE LVMPD*SCQTVTEFVPANSHSY

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9305	39673	A	9365	1	2082	MDIQEFPDLKGITTSLEILTLTRA GIRLLPSGMCQQLPRLRVLELS HNQIEELPSLHRCQKLEEIGLQH NRIWEIGADTFSQLSSLQALDLS WNAIRSIHPEAFSTLHSLVKLDL TTSQLTTLPLAGLGGMLHLKL KGNLALSQAFSKDSFPKLRILE VPYAYQCCPYGMCASFVKASG QWEAEDLHLDDEESSKRPLGLL ARQAENHYDQDLDELQLEMED SKPPTPSVQCSPTPCPFKPC EYL FESWGIRLAVWAIVLLSVLCNG LVLLTVFAGGPAPLPVVKFVVG AIAGANTLTGISCGLLASVDAL TFGQFSEY/GLARWETGLGCRA TGFLAVLGSEASVLLLTAAVQ CSVSVSCVRA YGKSPSLG SVRA GVLGCLALAGLAAALPLASVG EYGASPLCLPYAPPEGQPAALG FTVA\LVMMLKLLLF SWFVGPLP YHQNWYCDLPRGDFEAVW\DC AHGEATWAWPHLRKTGLLYCP VAFLSFASMLGLFPVTPEAVKS VLLVVLPLPACLNPLLYLLFNP HFRDDLRRRLRTPRRRTQGPP*PL CCGREDA GERASC\DSYPQALV APSLMWISFCEAS*SWAGPLEL ETYGFPSVTLISCQQPGAPRLEG THCVEPEGNHFGNPQPSLDGEL LLRAEGSTPASGGLSGGWRLSA LWLGLWLHTCKYSPFFSSPLF PFLSPPSVNDGCF
9306	39674	B	9366	1	510	
9307	39675	A	9367	88	246	TPMRPMKSPMPTPVSRSGSSSK MG*SSASL*RSIPGLDAGKTPW PAGRSGTWA
9308	39676	A	9368	693	1041	AEGYSQCPNAREGHVDEENED SAPAAQKIP*I*ED*SPHVSQPVP EGEEECVKKQ/GRFSWNTSTS* RQT/TARKKLLADQAEARRSKT KEAHKSYEEHLQAKKEEIIKTL SKEEETKK
9309	39677	A	9369	1	1911	

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9310	39678	A	9370	1	921	MWRSIFLDSRYLLSSRRKILILLI HVTFSGIRALAVPFRLPVEKMS FIFMGDVIHRMLTATQYVAPL MANFNPGYSDNSTVVYFDNGQ QIRKLIKDGLIIRKPVTVHSRAR CRKNTLARRKGRHMGIEFACFC CVFLTPALICMVCAVRLLTRDP YLASGDQPLERATGEHASMHE YYPGELG\QPPGLYPSSHPPGRA GTLRALSRQDTFDADTPGSRNS AYTEL*DSCVDMETDPSEGPGL GDPCE\GTPPARQGSWEDEEED YEEELTDNRNRGRNKARYCAE GWGPVLGRNKNELEGWGGRGV
9311	39679	A	9371	3	740	ELFPFAAAAAAMSMLRLQKRL ASSVLRMWQRTNGLG*TPMRP M*SPMPTPRQQIPEAHQRWAD HP/LSLVTGPFPGSMPEKTPLA\ AGEGAGQHGA LGKAGRGT SQ MPGMPGEGQHGLRRIEDFGAG LLQKDTGEI*RRSDRP HVFTAC YLEGEGGMLFQKQGGFFMGTL PQG*RQDKGPQRSFLADQA*RP QGLRTKESTESASEERLPGQRK EEINQRLYSKEGRRPRNKNLPL GSVHTWPLVIT
9312	39680	A	9372	1	2229	
9313	39681	A	9373	3	1560	SGPNSLKFYDWGETVPQPWPIF GLSPAFGFPLCFPRGLGETIFSSR PHIR/RNYPELQKRLNGWLSAA LKTARILTVCVAVMLLLSAWG LFD FWNWLQNGAGQKNP*NIP D/LRIRNSILFL/LSAVGWTVLA\ SLIENRLASDIHGRPLPSARTR TLLTLFRNALAVIISTITIMIVLS EIGVNIAPLLAGAGALGLAISFG SQT LVKDIITGVFIQFENG MNTG DLVTIGPLTGTVERMSIRSVGV RQDTGAYHIIPWSSITTFAN\FV RGIGSVGANYDVDRHEDADKA NQALRDAVEDDETRFTSESSPIL RCCQREGLGLKAVVQILLSHGR NGLPGEPASSQGLSAASSTPVF HLALQIDSAPDNIDWVEMLFNK NMVTERLQNMVLEQCFS DSS SLYRFLTYSYLLAFNVWLLAP VTLCYDWQVGSIPLVETI WDM RNLATIFLAVVMALLSLHCLAA FKSRVTASIPGCIKAHAVENVL TTKSKTRIYPEVVVQSG LQKQK GKG SVMFIEAAGL

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9314	39682	A	9374	3	276	VRQYR/LGN/MHQQRMAEMID ARQQQAFGEEGACWGGCPKHR VMLDASGKPGNLNLCAGYQRD VRHLPRYLKAMADLLAHGRPA SDIMHAHLV
9315	39683	A	9375	102	916	RSLLAIFNHW*\KRDL\GKFLVW NIKW/AFAKFCRSAGQTSGRSVI VEHNGEIYACDHYVYPQYRLG NMHRQRMAEMIDSRQQQAFGE DKFKQLPAQCRSCNVLKACWG GCPKHRFMLDASGKPGNLNYLC AGYQRYFRHLPPYLKAMADLL AHGRPASDIMHAHKKVFKRGT ACSGFQKGGPLFRSRTGYCPTL RKKAPCPKTGLLGKKWTPQRR NSSGKSCAKRRGDPPLENRFN GSRVQRKPQWNSCTGHPENN FPNYGGTPYPQRMWPL
9316	39684	A	9376	338	1155	SIFISIGNLAANDLSPSRIARLQK ILHSYVPEEIRDGNQVRVTSWD GRKWGELEGDTYDRVLVDVPC TTDRHSLHEEENNIFKRSRKE RQILPVLQVQLLAAGLLATKPG GHVVYSTCSLSHLQNEYVVQG AIELL\PINTASRYRWKI*LTSEG FSWTHFVSSQSCPGWGAGNTK TSLA\ILALCTSAKCVGWT*YPP QSLKQEYQRVYSVGCTRNWKL GPVAEMHSRSLHPVRVFLQFS AIRSRFAVLLSNCGASAWFPT SLINPYPI
9317	39685	C	9377	157	453	
9318	39686	A	9378	486	1195	ARPQQYEQVPGKAEASEWERG SSAPTGGGHAAGGVGGG EGSPPALHGRGARAG/GAGICM GLRQQLNR*AMDLTGAGGPAR AGAAGAVARGGGRHQGPAG GRGRGLGFAAGTAEPGAPHR PLQRALPPIRREPERHRAPRAG AAPQCGSARPRQPRAPQSLRAG ALPEAHAQQGQPARTHPAEPGP AARRAQQSLCRHWD*GRGRPG PPDALRGAASDFRLSARTPICR
9319	39687	A	9379	10	1278	

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9320	39688	A	9380	1	1305	MECVCVKEKEREEKEGKEEEE EDEAVAERGKGERRGERGE RKREKETYTEKNRYRDTKRDR DRERKEPYEIPSSLIGHGDPKDE LDRNLALKQVKTYWVIQFSKSI EVIEKRMAVLNEQVKEAEGSS AEYKKEIEELKELLPEITEKTED AKESQTTGNVAELALKATL\GG GSSVS/SI\SRKPTDGASSNCV TDISHFVRKKRKPEEQSPWKDD AKKVKQELEVNNGSGDAVPSG NEVLENMEEEAENRVESRAAV EGTVEAGATAESTAYMYDIPA MYQENTAVSKTDEVSDLIHKL AQTDLLAQERAGKRASPDGG SAEGQAQSDRQEATKQRHKQE AGDRHYDKQMLEYQGAHELY SSREKRKEKKKKPPHGRLPPTP VALHGAKRRLTKRLFNASPN KPKGHSTQFSVMSQAEQQPVL
9321	39689	A	9381	67	458	WDMANS GCKDVTGPDEESFLY FAYGSNLLTERIHLRNPSA AFFC VARLQ\QEGVKSGMYVVIEVK VATQEGKEITCRSYLMTNYESA PPSPQYKKIICMGAKENGLPLE YQEK LKAIEPN DYTGKGSEENE
9322	39690	A	9382	139	710	WDMANS GCKDVTGPDEESFLY FAYGSNLLTERIHLRNPSA AFFC VARLQDFKLD FGNSQ GKTSQT WHGGIATIFQSPGDEVWG VVW KMNKS NLNSLDEQEGVKSGMY VVIEVKVATQEGKEITCRSYLM TNYESAPPSPQYKKIICMGAKE NGLPLEYQEK LKAIEPN DYTGK VSEEDIIKKGETQTL
9323	39691	A	9383	1	731	MANS GCKDVTGPDEESFLYFA YGSNLLTERIHLRNPSA AFFCV ARLQLLIESPRMSRLAKFWPRT HAVILSKTERTSFWPLKPQKWE SGSDTPYSQTRKDFKLD FGNSQ GKTSQTHGGIATIFQSPGDEV WG VVWKMNKS NLNSLDEQEG VKSGMYVVIEVKVATQEGKEIT CRSYLMTNYESAPPSPQYKKIIC MGAKENGLRLKYQEK LKAIEP NDYTGKVSEEDIIKKGGTTKL
9324	39692	A	9384	41	333	MFCNTDLGT/LLCTDVVARGLD IPQVNWIVHYDHPDDPK EYIHR VVPAFVDLNVNGNEGKQKKRG GGGGFDYQKIKKVEKSKIFKHI SKKSSDSRQLSH

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9325	39693	A	9385	3	1852	SKQKPMNVGLSETQNGGMSQE AVGNIKVTKSPQKSTVLTNGEA AMQSSNSESKKKKKKRKMV NDAEPDTKKAKTENKKGKSEEE SAETTKETENNVEKPDNDEDES EVPSLPLGLTGAFEDTSFASLCN LVNENTLKAIKEMGFTNMTEIQ HKSIRPLLEGRDLLAAAKTGSG KTLAFLIPAVELIVKLRFMPRNG TGVLLSPTRELAMQTFGVLKE LMTHHVHTYGLIMGGSNRSAE AQKLGNGINIIIVATPGRLLDHM QNTPGFMYKNLQCLVIDEADRI LDVGFEELKQIIKLLPTRRQTM LFSATQTRKVEDLARISLKKEPL YVGVDKDKANATVDGLEQGY VVCPSKRFLLLFTFLKKNRKK KLMVFFSSCMSVKYHYELLNYI DLPVLAIHGKQKQNKRTTTFQ FCNADSGTLLCTDVAARGLDIP EVDWIVQYDPPDDPKEYIHRVG RTARG\LN GRGHALLILRPEELG FLRYLKQSKVPLSEFD FSWSKIS DIQ\SQLEKLIK\NYFLHKS A\Q EAYKSYIRAYDSHSLKQIFNVN NLNLPQVALSFGFKVPPFVDLN VNSNEGKQKKRGGGGGFGYQ KTKKVEKSKIFKHISKSSDSRQ

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9326	39694	A	9386	1	2703	MAQQATLCSMKGCMRALVAQ LKSESEDLQQTQAKREVPKSK VPAAEKRESGPKQAAVNAAVQ RVQVLPDQVDTLLHFATESTPDG FSCSSSLSALSLEDPFIQKDVEL RIMPPVQENDNGNETESEQPEE SNENQDKVEKPDSEKDLLDDS DDDDIEILEECIISAMPTKSSRK AKKLAQTASKLPPPVARPKSQL PVYKLLPAQNRLQAQKHVSFTP GDDVPRVYCVETGTPINFSTATS LSDLTIESPPNELATGD/GVRA/S IQSGKSHKPFVRVKK/IMDQVQQ ASSTSSGANKNQVDTKKKKPTS PVKMPQNTTEYRTRLPNNEDR VRGSFALDSPHHYTPIEGTPYCF SRNDSLSSLDFFFFDVLRSREK AELRKKGESKDSEAKVTCRPEP NSSQQAASKSQASIKHPANRAQ SKPVLQKQPTFPQSSKDGPDRG AATDEKLQNFAIENTPVCFSRN SSLSLSDIDQENNNNKESEPIK EAEPANSQGEPSRQLSQQLTK QASLSKNASSIPRSESASKGLNQ MSGNGSGNKKVELSRMSSTKS SGSESDRSEPALVRQSTFIKEA PSPTLRRKLEESASFESLSPSSRP DSPTRSQAQTPVLSPLPDMSL THPSVQAESSEKAKSEDERHVS SMPAPRQMKENQVPTKGTWR KIKESDISPTGMASQSASSGAAS GAESKPLIYQMAPPVSKTEDV
9327	39695	A	9387	2	193	QSSE*NIQGPCNVWSSR*RWER SKGRRHLSSASRPLSALSTLRFT SVSQHAAKRVVVIRPQGG
9328	39696	A	9388	395	761	SMQKKPRPIAHRQRCRAAMAA/ GQQPQIPITTGTGVVYPGAIM ATTPSPQMTSDCSST\SASPEPS LPVIQSTYGMKTDGGSAGNQ MINGEDEMAMYDDYEDDPKS DYSSENEAPAVSAN
9329	39697	B	9389	1	477	

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9330	39698	A	9390	167	890	LSGARSSQGRLPWGRGDAVSTS TSRRNPRTGASDERNNHEPGKN SPYLQAQ\VRIGGKGTTARRKKK VVHRTATA\DDKKLQF\SLKKL GVNH\ISGIE\EVNM\FTNQGTSG STFNNP*KVQAISWAANTFHPL PGPCWRPKPADKKWLPQPSLN PSLGAG*S*LRFKGRLARSFLPP NNP\VDGKATHLPTG\KDDDD\ KVPRSLWRILMRLPKNEGKLEL RSTS*R*NLEEV\GSRYFKIMT AF
9331	39699	A	9391	2	315	GAASLLRAGPGSSGSDP\PLSSR FVERRGALYRSPMNQENPPPPYP GPGPTAPYPQYGWQGGPQEPP KTTVYVVEDQRRDELGPSTCLT ACWTALCCCCLDWMLT
9332	39700	A	9392	263	680	LLLPAVTSAPLPPAGLATCPCP RLAQLGIGRAAPQKRSPRRNP EASRGRPPDGVWRAPLR/VPPT PRETEPQRRGDPGLRNPCLSQA SPGAPQFSGP/PPGSPGTRPVRA* SPPGPSWVGPGPLHLTSPLPNRL DNGRV
9333	39701	A	9393	2	537	SGARLLTTCSETGAASLLRAGP GSSGSDP\PLSSRFVESRGALYR SPMNQENPPPPYGGPTAPYPP YPPQPMGPGPIGGPYPPQGY YPRIPTVRLAGWTSGSLKTTV LLWVGRPKEEMKLGTHLPSQP AGTGLCLLLSLGTWFTLTRTRP RPFLFLASSAANLLTGVPCPHLF
9334	39702	A	9394	3	470	PKAKKEAPAPPKAEAKAKALK AKKAVLKGVHNHT\QKKKIHTP LTFQRPKSLRLRRQPKYPRKSA PRRNKLDHYAIKFPLTTESAM KKIEDNNTLVFIVDVKANKHQI KQAVQKLYDIDVAKVNTLIRPD GEKKAYVRLAPDYDALDVAN KIGII

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9335	39703	A	9395	1	1144	MLYQVLMVDTCGTRGEGAFLLK YRKPACTALGFMFPRSHGLTA DTVLVSSLSRWFLWRLLLLLL LLLLNLPLQKAVHRKATPESAI ADCSGPRDCAPWVKFAMLELH SFKCPAGEYWSKDVCCKNCSA GTFVKAPCEIPHTQGQCEKCHP GTFTEKDNYLDACILCSTCDKG DFYGKKTAVHEALCDNIDTRT VMEEMRALVSQCPLYMAARK AERRRPNRALLENIAMYLTHM LKIFGAIEEESPLGFPVGGPGTN LNPIENGGMDKFLTTVSVLKRT HRVSNGQNSVCRSVSYWKPKC TFCSLTHITYIRYLELRLTLESTV MPYLQVLSEFREGVRKIAREKK VLEVLQLSDALR\VTSCLSLGS LKTMTKEPCLLF
9336	39704	A	9396	1	639	MDGDEKTSFICAVHNGIFREWK QTGTCSPIKKGQLLRVECHGK IKAQGGQMYIKAALFTRAKTW NQPKCPS\MIDWIKKMVWHIY/ TCEYYTAIKKKIMSSVETWMEL EAIILSKLTQEQKSKFRTFSLYSS RVFQRTQDVPYHNKLNEEADK PTTNKKGLILNRLVNTPIGRK NTGKLSAIKEKLLKRPKRKHL KIYTLKNDSDLIKDKNI
9337	39705	B	9397	1	825	
9338	39706	A	9398	2	285	HEENRPFVCEH/AGCGKT/FAN KPSLTSDAVVH/DPGKKMKL KVKKSRKRSLSHLSGYIPPK RKQGGQLSLCQNGESPCVED KMLSAVPVLTG
9339	39707	A	9399	2003	2344	PFVGVFWLFFFSVFVFTFVPP EYYVLPAPPPHRSVFLVFGKRV VFFFPLPC/CDFRSRLTPPFVCAP P\PPPLPFVSVPCVPSLSCGDVC AADKKNKKKFLNTTRWKKKT
9340	39708	B	9400	3	113	
9341	39709	C	9401	48	182	

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9342	39710	A	9402	2	752	VWWSRRRPVKRRRLASPYS ACSGRSAGFLDNCAMCAARLA AAAAAQSVYAFSARPLAGGEP VSLGSLRGKVLLIENVASL*GTT VRDYTQMNELQRRLLGPRGLVV LGFP/CNQFGHQENAKNEEILNS LKYVRPGGGIEPNF/MLFHKSE VNGAGAHPLFAFLREALPAP/S DDATALMTDPKLITWSPV/CRK DPGKIKFFLPGPNFFEFKFLGGP CTVLPLRRYSRRF\QTIDIEPDIE ALLSQGPSCA
9343	39711	A	9403	1	1128	
9344	39712	A	9404	7	378	ARCDHPTAFVVCYRFYPWPAG HVDAAVH*YVCARATDSFIIV WRTLLKGTIIILHESSIHDFNLT SQKLWAFVPNKAPRTSGIICWP EIQSAFQGGGNLYFTIPIVDRNS TNYVLRQVRLLGN
9345	39713	A	9405	318	616	DPAGFPGCWKPLFYDLHYRSQ LHQLCLQAGRTPGQFGHQHFRF WWQFCT*ELPSALQPLPEGNLV SCNEQSFGAPATGTNPGEVHP AALGTWLYLLPPC
9346	39714	A	9406	1	145	MEYYAVIKKDEFMSFAGTWM KLETHLSKLTQE\QKPTPLMFSL ISGS

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9347	39715	A	9407	1	2052	MVLVVVAVVVVVLVVAVIVV VVVVVA AVVVGAVVVVVVVV MVVVVVVVVVEEDNQHKTGA INNNNTAKNPQQSPFHSPATST GAEATQMRRNQKTNPNNMTK QVSLTPPKITLAHQWQTKKK YLIYLLKKHSGVKNIPRNPTYEG CEGPFQGELOTTAQQNKGGHK QTEDHSMMLMDRKNQYCENGH TAQAVPNPYTLLSQIPEDAWEF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVLPQGFR NSPHLFGQALAQDLSQFSYLDL LVLRYMDDLLLATHSETLCHQ ATQALLNFLATCGYKVS KPA QLCSQQVKYLGLKLSKGTRTSL EERI QPILGYPHPKTLKQLTAFL GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPAEVAF QALKKALTHAPVLSLPVGQNF LYVTEK\TGIALGVLT/PGTSAQ LAELIALTRAPELGEGRVNIY ANSIGREREFLTSKGTLVKHQE AIKRLLLAVQKPKEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPLEMLTEGPLAFELA MATARAELSLAIHHCCLP PPPQ TRCWLPSLRIRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPRS EKTRLATILEAACCHFGSGPPPS WELWEQGPPVTVQTHILRSHL
9348	39716	A	9408	2	350	YKVS KPAQLCSQQVKYLWLK LSKGTRALSEERI QPILAYPHPK TLKQLRGILGITGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9349	39717	A	9409	1	749	MNQSDQEMTGAFVHMKSYTG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEEAWEFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNP HLFGQALAQDLSQFSYLDLVL RYMDDLLLAAYSETLCHQATE ALLNFLATCGYKVS KPAQLCS QQVKYLGLKLSKGTRDLTTFLP VNEEKIE/P*LSTSNCSKLRCRG TSRGS LG
9350	39718	A	9410	118	174	
9351	39719	A	9411	577	3018	

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9352	39720	A	9412	310	1964	TFRLTEPTQMRRNQKTNP TKQGSSIPPQKNHTSSP QEEIPDLPEKNSGVN YEGCEGPFQGELOTTA GHKQTEDHSMMDRKNQ NGHTAQAVPNPYTLLS EWFTVLDPKHAVFCIP FLFAFEDPSNPMSQLI GFRNSPHLFGQALAQD LDTLVLRYMDDLATHS HQATQALLNFLATCGY KAQLCSQQVKYLGLK TLSEERIQPILGYPHK AFLGITGFCQIWIPSIL WLSDNHLLKYQVLLLE LRTCATLNPATFLPDNE NCQQVIAQTYATRGDL DPDLNLYTDGSSFVQK GYAVVSDNGILESNPFT QLAELVALTWALEFGEG INTGSKYAYLVLHAHAS EFLTSEGTPIKHQEAIR QKPEEVAVLHCWGHPK IEGNCQADIEAKRASRQ MLIERHLVWGNPLWETNP
9353	39721	A	9413	3	370	RCCPCPRVHHMHISARAE RPPPFLLLLVFLFQTGPC SPPPAHPSCSSWPQWPG/C SVLLAKPAACLIAAAVSAN LFPKCCRTASNWAHRQVTL WSELSSCFWPE
9354	39722	A	9414	191	1375	EWPEGGGRYSSVPSAVHH CLAAELSGTSRPQEPRAL VATAEAEKSNQPAAISK\P GAPLQR/RSPRLSPSPGAA LPMQDMSEGSSSPPGGHI ASLTPCSLALWNSCCQSPG RGRDEGDCLVRATEPSATG RRTRLCSISASLVVRNTPD DRRPGISDRRPGTSDRRPG RPGISDRRPGTSDRRPGTSD GTSDRRPGTSDRRPGISDR SDRRPGISDRRPGTSDRRPG RRPGTSDRRPGTSDRRPGIS RDWIPAAAASRENSNSAD RCSSPSRKCCQTPTSHRM SVGSSAGHTAGGTGLPTSP QALQVFPAVLGKRGFLSW LKQRDIRGPDFSSTALI
9355	39723	A	9415	3	523	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9356	39724	A	9416	1	846	MLCDFQDGSTSRHVNEPSNNPS PQPWSEDQGGASATVPCAKSV MHRLKKFTIEYLVMKFLKAVS HAIQMEMLAPKGPSPEDASV KEENICRAFSDALLYKIEDIDNK DWNNPQLCSDY/VKDNAYTSF QIQEMETILKELKFEVGGPLPL HFLRQASKAGKADVEQHTLAK YLMELTLIDYDMMHYHPSKAA TAASCLSQKVLGGQKWNLKQQ CYTGYTQNEVLEVMQHVAKN VLKVNENLTKFIAIKNKYASNK FLKISMIPQLNSKAIKDLAFPLM GGS
9357	39725	A	9417	72	1340	CPPFSVRVPPWAGLALLPSPSL MALLRRPTVSSDLENIDTGVNS KVKSHVTIRRTVLEEIGNRVTT RAAQVAKKAQNTKVPVQPTKT TNVKNQLKPTASVKPVQMEKL APKGPSPTPEDVSMKEENLCQA FSDALLCKIEDIDNEDWENPQL CSDYVKDIYQYLRQLEVLSIN PHFLDGRDINGRMRAILVDWL VQVHSKFRLLQETLYMCVGIM DRFLQVQPVSRKKLQLVGITAL LLAPKYEKMFSPNIEDFVYITD NAYPS\SQIREMETLILKELKFEL GRPLPLHFLRRASKAGEVDVEQ HTLAKYLMELTLIDYDMVHY HP\SKVAAAASCLSQKVLGGQK WNLKQQYYHKDTQENEVLEV MQHMAKNVVKVNENLTKFIAI KNKYASSKLLKISMIPQLNSKA VKDLASPLIGRS

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9358	39726	A	9418	1	1875	EPEKQQLYDIPASPKKAGLHPP DSQASGQGVPLISVTTLRRGGY STLPNPQKSEWIYDTPVSPGKA SVRNTPLTSFAEESRPHALPSSS STFYNPSPGRSRSLTPQLNNNV MQKKLSLPEIPSYGFLVPRGTFP LDEDVSYKVPSSFLIPRVEQQN TKPNIYDIPKATSSVSQAGKELE KAKEVSENSAG\QIPHGSPDGG/ RSPSPDPRLSGSSSDSRASIVSS CSTTSTDSSSSSSEESAKELSL DLDVAKETVMALQHKVVSVA GLMLFVSRKWFRDYLEANID AIHRSTDHIEESVREFLDFARGV HGTACNLTDNLQNRIRDQMQ TISNSYRILLETKESLDNRNWPL EVLVTDSVQNSPDDLRFVMV ARMLPEDIKRFASIVIANGRLLF KRNCEKEETVQLTPNAEFKCEK YIQPPQRETESHQKSTPSTKQRE DEHSSELLKKNRANICGQTLPN LEEKDKPILEQRLDENKDLGTM NPGPLIPQSSQQTPERKPRLSE HCRLYFGALFKAISAFHGSLS QPAEITQSKLVIMVGQKLVD LCMETQERDVRNEILRGSSHL SLLKDVALATKNAVLTYPSAA LGHLQAEAEKLEQHTRQFRGT

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9359	39727	A	9419	1	2013	MGLKSWGGMGLGTAFGKGLR GEKAWCVSGRYHWRYSQWSG TLTQGPWVWRVHSLSDRVYDV PTQHRGPVVLKEPEKQQLYDIP ASPKKAGLHPPDSQASGQGVPL ISVTTLRRGGYSTLPNPQKSEWI YDTPVSPGKASVRNTPLTSFAE ESRPHALPSSSTFYNNPPSGRSR SLTPQLNNNVPMQKKLSLPEIPS YGFLVPRGTFLDEDDVSYKVPS SFLIPRVEQQNTKPNYDIPKAT SSVSQAGKELEKAKEVSENSAG QIPHGSPDGQ/RSPSPEDRLSG SSSDSRASIVSSCSTTSTDSSSS SSEESAKELSLDLDAKETVMA LQHKVSSVAGLMLFVSRKWR FRDYLEANIDAIHRSTDHIEESV REFLDFARGVHGTACNLTDNL QNRIRDQMQTISNSYRILLETKE SLDNRNWPLEVLTDSVQNSP DDLRFVMVARMPLPEDIKRFAS IVIANGRLLFKRNCEKEETVQL TPNAEFKCEKYIQPPQRETESH QKSTPSTKQREDEHSSSELLKKN RANICGQNPGLIPQPSQQTPE RKPRLSEHCRLYFGALFKAISAF HGSLSQPAEITQSKLVIMVG QKLVDTLCMETQERDVRNEILR GSSHLCSLLKDVALATKNAVL YPSAALGHLQAEAEKLEQHTR
9360	39728	A	9420	3	645	DFHTN/K/RVCEEIPIILSKKLHN RRAGCVTHLTNQIRGPVIRGSI KLQEEEEKERRDNYVPKVSALD QEIEVDPDTKEMLKLLDFGSL NLQQQKATRVYAVVQISAPMF LLWALPLSVAPLITDFKMFVTT SYLISLFLINSSANPIIYFFVGS RKKRLKESLRVILQALADKPE VGRNKAAGIDPMEQPHSTQH VENLLPREHRVDVET
9361	39729	A	9421	312	694	LTPAPRKNVTEKYMCLGND HTN/K/RVCEEIPIILSKKLHNRR AGCVTHLTNQIRGPVIRGSIKL QEEEEKERRDNYVPKVSALDQE IEVDPDTKEMLKLLDFGSLNL QVTRPTVGMNFKMPRGAV
9362	39730	A	9422	3	383	

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9363	39731	A	9423	304	1862	RMLEATSKMRKGVPSIQ/SSQ GNSYTLIPSAKSDNLSOSSHSEI SSRSSIVSNCSVDSMSAALQDE RCSSQALAVPESTGALEKTEHA SGIGDHSQHGPWTLLKPSLIK CLAVSSSVSNEEISQEHIIEAAD SGSWEVGTSCSSSSHDNFQSLP NPKSWDFLNSYRHTLDDPIAE VEPTDSEPYSCKSKSRTCGQC KGSLEKSWTSSSSSLDITYEPN YGTVKRRVLESTPAESSEGLDP KDATDPVYKTVTSSTEKGLIVY CVTSPKKDDRYREPPPTPPGYL GISLADLKEGPHTHLKPPDYSV AVQRSKMMHNSLSRLPPASLSS NLVACVPSKIVTQQRHNLQPF HPKLGDVTDADSEADATLGNK CKLLYMSDVARNPVPVKDVLV QKYTSFNFFHPQEALDRRREEL ALPEGASGEACLSTRSLKRSGV QALAQQTHSRNFLPEKQPFSAQ AAGILHGSINHNTRGPCLLEGT KMMTGVLRYRAYLLCIAYSRDLI VDEQIMNGLRKAI

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9364	39732	A	9424	1	1335	MTFKNPKYPFVSNLAKQKGMS VIK VNGKLQQSNPNRTTNGPDP SGMKVWVSPQGKNPQPTEVLA EGKGNTWVVEEDTRNFGFGI QKHTDIGIKYDSSTGIYDLDFN VVLDRRASEEGITLTAALAADR ETPSENCLPSPVNPTAQGEEGIH PDPIIVLEQEDPTTAPHPQRLCQ QQQCQRPLCRLQPVWPHIVDLT PLTEIGSEEPVGELNFKHIRFEV SEDNMTFDASDQGPFENYWQ LVLSATPGDVTWNGALGLHTP KSSSPDTCSAQQASQCWELSPG GRRIGTLLLPQESGASWLPPGV TSSLA AVRVMNCGDKATPRN GGVRTLKKLSSLPLSKAGGKVL YGEINPEQEVQASLSFAALLES YGIFMETEFLVACLISQGGQLR NQDFSSSIYSLAPGLDPSSVRA GAQRTAPPWGISPRSC/PVIKVN GKLQQSNPNRTTNGPDPSGMK VWVSPQGKNPQPTEVLAEGKG NTEWVVEEDTRNFGFGIQKHT DIGIKYDSSTGIYDLDFNVVLDR RASEEGITLTAALAADRETPSE NCLPSPVNPTAQGEEGIHPDPII VLEQEDPTTAPHPQRLCQQQQC QRPLCRLQPVWPHIVDLTPLTEI GSEEPVGELNFKHIRFEVSEDN MTFDASDQGPFENYWQLVLS ATPGDVTWNGALGLHTPKSSSP DTCSAQQASQCWELSPGGRRIG
9365	39733	A	9425	56	235	
9366	39734	A	9426	1	515	
9367	39735	A	9427	138	830	AWAQLPSALGSTRVSPPPSARS QPPWRRRHK/CLLETEPLQGT EDAVASADFSSMLSEEEKEELK AELVQLEDEITTLRQVLSA\KER HLVEIKQKLGMLNLMNELK\QNF SKSWHD\MQTTTAYKRTHDTL SHAGQKATAAFSNVGTAKSKKF GDMSYSIRHSIMPAMRNSPTF KSFEERVETT VTSKTKVGGTN PNGGSFEEVLSSTAHASQAQSLA GGSRRRTKEELQC
9368	39736	A	9428	3	381	LLETEPLQGTDEDALASADFSS MLYEEKEEVKAELVQLEDEIT TLRQVLSAKERHLVEIKQKLG MNLMLNELK\QNFSSKSWHDMQT TTAYKKTHETLSHAGQKATAA FSNVGTAKSKKFGDMRRK

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9369	39737	B	9429	79	426	
9370	39738	A	9430	1	570	
9371	39739	A	9431	1	1677	MLESVNVRLLEDLITGPCWEAG WNAGYAFLVVAVEDFTIGKLF DKLEGTKLCLKNALPRVITQTE SHRQRLLEAAAANWHSWLKIV QKMKA VYHILNMCNIDVTQQC VIAEIWFPVADATRIKRALEQG MELSGSSMAPIMTTVQSKTAPP TFNRTNKFTAGFQNI VDAYGV GSYREINPAPYTIITFPFLFAVMF GDCGHGTVMLLAALWMILNER RLLSQKTDNEIWN TFFHGRYLI LLMGIFSIYTGLIYNDCFSKSLNI FGSSWSVQPMFRNGTWKTGTH DPHLAVLFKMGHVEGRDCVLR IVLAKIGYRNGFLRKIWNLASN KL TFLNSYKMKMSVILGIVQM VFGVILSLFNHIYFRRTLNIILQF IPEMIFILCLFGYLVFMIIFKWCC FDVHVSQHAPSILIHFINMFLFN YSDSSNAPLYKHQFNFGDV FV HQAHTIEYCLGCISNTASYLRL WALSLAHAQLSEVLW TMVMN SGLQTRGWGGIVGVFIIFAVFA VLTVAILLIMEGLSAFLHALRL HWVEFQNKFYVVG DGYKFSPFS FKHILDGTAE
9372	39740	A	9432	3	933	GTWPVSSAASIYAGTGGLG\SQI SMSCSTSFWGGLGSGGLATEM AGGLAEMGGIQNEKETMQSLN DHL DYLDVRNLETENWRLES KIQEYLEKRPHVRDWGHYFKTI KELRAQIFANTVDNVHILQIDN AQSSMRQELAMRQSVESNIHG LCKVIDDTNVTL LQLETEMGAL KEELL MKNHEEEVKGLQVQ IANSGLA VEVDAPKSQVLAKM EQLNRILLYLESKLAQNWAEG QRKVQEYKDLLNIRVKLEAEIA TYRRLLEDSEGLNLGDALDSSN SMQTIQKTTTRQIVDSKV VSEIS DTKVL RH
9373	39741	A	9433	3	698	

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9374	39742	A	9434	2	479	PRVRESTTVVTTQSAEVGAAET TLTELRRTVQSLEIDLDSMRNL KASLENSLREVEARYALQMEQ LNGILLHLESELAQTRAEGQRQ AQEYEALLNIKVKLEAIEA/TTY RRLLEDGEDFNLDGALDSSNS MQTIQKTTTRRIVDGKVVSETN DTKVL RH
9375	39743	A	9435	1	618	AEHLLKPLPADKQIETGPFLEA VSHLPFFDCLGSPVFTPIKADIS GNITKIKAGYDTN\QPRFRTLKT ILEGEKEMYGAKGPKVGATLA LMWLKRGLRFIQVFLQSICDGE RDENHPNLIRVNATKAYEMAL KKYHGWIVQKIFQAALYAAPY KSDFLKALSKGQNVTEEECLEK IRLFLVNYTATIDVIYEMYTQM NAELNYKV
9376	39744	A	9436	1	1569	
9377	39745	A	9437	211	368	ERNLSQLQWDNPTPPATRRPS HSSLRGEHAQ*GLLSFFERLSCT LSRFMPI
9378	39746	A	9438	1435	1703	
9379	39747	A	9439	1	913	MKNYNCWRRVFLFVVTPIPMG HIKHRQGPKNKQQRGQKRDEQR MRKENRGHRKGCTWCGGGTE GTGWGKYEKSEVERGLVRYER KRRAYSIGIQYAAAAALPTVYN QNLLTQQSIGAAGSQKEACAY AVMSLASRAPVYRSFDEKAG DREVQRTMLELLNQLDGFQPN TQVKVIAATNRVDILDPALLRS GRIDRKIEFMPNNEEAR\ARIMQ IHSRKMNVS/TDITLVALQMAL NVYNGKQAPYASCHIFELYQE DNGFLL EHTGFVSYDNPVSAQ AAIQSMNGFQIGMKRLKVQLK RSKND SKPY
9380	39748	A	9440	3	438	
9381	39749	A	9441	1	247	AIAAIDSDSSDGSQRQSEWKFWK GFTILDAIKNIYDSWEEVKMST LTEVWKKLIPTLMDSFEDFIEE VTVDVWECTVLQTQI

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9382	39750	A	9442	93	726	TSLGLSLCPRQCKRCPHLSLQQ EEDPANLEVDHDFQDKVWP HLALRVP\AFETLKVQSAWAGY \YDYNFTDQNGVVGPH\LVVN MYFATAFSGHGLQQAP\GIGRA VAEMVLKGRFQTIDLS\PF\TR FYL\G\EKIQ\ENNIILRHVCSGIG LPLACNPWLCLKSL\VCWLP\IFP KVLCPGLLSPSPVSSSSQAGHW HPIWAGQGTGSEAEQG
9383	39751	A	9443	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIQA\FREPRLLV\TDPR DHQPLTESSYVNLPTIALCNTDS PLRYVD\ICNNKG\AHS\DP\EEIE KEEQAAAEKAVTK\EEFQGEWT APAPEFTATQPEVADLSEGVQV PSVPIQQFPTDDWSTQPATENW SAAPTAQATEWKMQQQSTILE AESSPHQTPNLPAPWSRTSQPPE
9384	39752	A	9444	1	1575	
9385	39753	A	9445	1	2325	
9386	39754	A	9446	1	1149	
9387	39755	A	9447	85	1041	REIVTMSGALDVLQMKEEDVL KFLAA\GTHLGGTNLDFQMEQ YIYKRKSDGIYIINLKRTWE\KL LLAA\RAIVA\IENPADVSVISSQE ILGQKGCAESFAAATG\ATPICW ARFTPWNLSLTQIQGSPSGEPR AFLLV\TDPQGLNHQPSHGGNL NV*PTLPLALVNP\DP\PLRRYVD IAIPCNNQGSSLQWGLMWWW\MM LASGSFCAMRGTVISREHP\WEV\ MP\DL\FYRDPEEIEKEEPGCCL RSQVTKEEFQGEWTAPAPEFT VTQPEVADWSEGVQ\VPSPVIQ QFP\TTEDWSAQ\PAT\EDWSAAP TAQATEWVGATTDWS

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9388	39756	A	9448	1	762	MGKVKVGVNGFGCIGRLVIRT ACNSGKVDIIAINDPFIDLSYMV YMFQYDPTHGKFHGTVKAENG KL VINGNPITIFQEPDPSKIKWG DAGTEYVMESTGIFTT MENAG AHLQWGAKRPQGLQNIIPATT/ GAAKAVRKVIPELNGKLTGMA LRVPTANVSVDLTYHLEKPA KYDDIKKVVKQASEGPLKGILG YTGHQVVSSDFNSDTHSSTFNA GAGTALNDHFVKLISWYDNEF GYNNRVVDLMAHMASKE
9389	39757	A	9449	93	660	DTMGKVKVGVNGFGRIGRLVT RA\AFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHGTVK AENGKL VINGNPITIFQEARDPSK IKWGDAG\AE\YVVESTG\VF TT MEK\ALGAHLQGGSQKHSSL APSCLMPPMFVMGVN\HEKDD NSLK\IISN\ASCTTNCLAPLAK\ VIHDTLVSGEGLKDHRLP
9390	39758	C	9450	554	715	
9391	39759	A	9451	193	472	RRVGWRRPQFQQSRC SHGPN QGSAPWLNPTGAFGKETDLL\ DDSLVSIFGKRRL\KRFSMVG/D RMASKNALNAQPDGPGLTCSL APNIISQL
9392	39760	A	9452	1	864	GTRMGLAGV CALRRSAGYILV GGAG/WSVLAPRAAAARRCSE GEWASGGVRSFSRAAAAMAPI KVGDAIPAVEVFEGEPGNKVK PGKSLFKGKKGVLFVPGGPPP LGCS\KTHLAKGLWEQG*RLCK AKGKSRVVALF*VVNDALCDW AQWGQAPQGGKARFGLLAESP LGPF GK\ETDLL\ALDESLVSHLL GIRRLK\RFS\MVVQDGIV\KAL\ NVEPDGTGLHLAAWAPNIIFTA LEALGPDLLPLPPPYSSPCPALC LGPLQFGNVGQISAIN TLWVLR PKQKKKKKS
9393	39761	A	9453	1	239	QCCSGGTHGNPAIGDR\MQKQI LPWAPAQM KIRFMAPPERKYS VWIAAPILASLSTSSRMWISKQE YDESGPSIVHRKCF

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9394	39762	A	9454	2	801	ASAPRAQSLAFADPPPVHTRRQ LTMDDIAALVVDNGSGMCKA GFAGDDAPRAVFPSIVGRPRHQ GVMVGMGQKDSYVGDEAQS RGILTLKYPIEHGIVTNWDDME KIWHHTFYNELRVAPEEHPVLL TEAPLNPKANREKMTQIMFETF NTPAMYVAIQAVLSLYASGRRT GIVMDSGDGVTHTVPIYEGYAL PHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIK/EE AVLRRPGLRARDGHG\ASSSSL EKSYELPDGQVITIGNERFRCPE ALFQPSFLG\MESCGIHETTFNSI MKCDVDIRKDLYANTVLSGGT HQFPLPCRPGC*KKITALEPAT MKI\RIIA\PEAQSTPLWNRGAP IL\ASLVHLPKMWWDQKSREYD ESGPLPFVHRK\CFQLLPGEELR
9395	39763	A	9455	3	108	
9396	39764	A	9456	1	1430	MKFLIFAFFGGVHLLSLCSGKAI CKNGISKRTFEEIKEEIASCGDV AKAIINLAVYGKAQNRSYERLA LLVDTVGPRLSGSKNLEKAIQI MYQNLQQDGLEKVHLEPVRI HWERGEESAVMLEPRIHKIAIL GLGSSIGTPPEGITAEVLVVT DELQRRASEARGKIVVYNQPYI NYSRTVQYRTQGAVEAAKVGA LASLIRSVASFISYSPHTGIQ EYQDGVPKIPTACITVEDAEMMSRM ASHGIKIVIQLKMGAKTYPDT DSENTVAEITGSKYPEQVVLVSG HLDSWDVGQGAMDDGGGAFIS WEALSLIKDLGLRPKRTLRLVL WTAEEQGGVGAFQYYQLHKV NISNYSLVMESDAGTFLPTGLQ FTGSEKARAIMEEVMSLLQPL NITQVLSHGEGTDINFWIQAGV PGA\SLDDLYKYFFVHHSHGD TMTVHGIQTQMECLLLFWAV VSYV\ADME\EMLPRS
9397	39765	A	9457	2	631	
9398	39766	A	9458	1	406	PTVCERELCVFAFQTLGVMNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVDPNDP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYGSGIYLSPMSSIS FGYSA
9399	39767	A	9459	7	257	

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9400	39768	A	9460	2	649	
9401	39769	B	9461	50	607	
9402	39770	A	9462	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSFRDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQNVLSPL NLEVDPNMQGMHTQEKEQVK TLNKSASFVDKVLFLQQNKM LETNWSLLQQQKPAQSNMDN MFESYINNLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLIKK DVDDAYMNKVELEFRLEGLTD EINFLRQLYEEIEPELQSQILDTS VVLSMDNSRSLDMDSIIAEIKY EELQTLAGKHWDRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAIKDA KTKLSELEAAQQRAKQDMAHG
9403	39771	A	9463	2237	2656	LSCSLFSGFAGTRFFGTSILRLPL MYCPVNDSGTAIIASSGPSATTS PP*TPAPGPMSTWASAARIASS CSTTITVLPSSRRWISVPNRRSL SRWCRPIDGSSSTYITPTRPAPI WLARRIRCASPESVSAERESV
9404	39772	A	9464	3	2790	EFVLIKKD\VDEAYINKVELES LEGLTDEINFLRQLYEEIRELQ SWISDTSVVLSMDNSRSLDMNS VIAEVKAQYEEIANRSQAEAES MYQIKDEELQSLAGKHGDNLR CTKTKISEMNRNISRLQAENEG LKGQRAFLEAAIADAEQCGELA IKDANAKL/SELEAALQRAKQD MAWQLR\LMNVRLALDIEIATY KKLLEGEESRLESGMQNMSIHT KTTSGYASGLSSACGGLTSPGL SYGLGASSFSRT

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9405	39773	A	9465	2	1516	SAIPTSTPASTMSIRVTQKSYKV STSGPRAFSSRSYTSGPSRISSS SFSRVGSSNFRGGLGGGYGGAS GMGGITAVTVNQSLLSPLVLE VDPNIQAVRTQEKEQIKTLNNK FASFIDKVRFLQNNKMLET WSLLQQQKTARSNMDNMFESY INNLRRLQETLQGEKLEKLE L\GNMQGLVEDFKNKYEDEINK RTEMENEFVLIKKDVDVDEAY MNKVELESRLG\LTDEINFRLR QLYEEEIRELQSQISDTSVVL SM DNSRSLDMDSIIAEVKAQYEDI ANRSRAEAESMYQIKYEELQSL AGKHGDDLRRTKT*DLLR*TRN ISRLQAEIEGLKGQRASL\EA AI ADAEQRGVELA\NKDANAKL\SE LEAALQRAKQDMARHLR*VTR ELD*TFKLPGTTFE\ATYRKLL EGEESRL\ES\GMQNMSIHTKT TT GGYAGGLSSAYGGLTSPGLSYS LGSS\FGSGAGSSSFRTSSSR AV VVKKIETRDGKLVSSESDVLPK
9406	39774	A	9466	1410	3244	PPCRSHPRPPLRGEQKPRPSQP PFAVPAAPAPQV*\PQMIDLCNV GFQFYRSLEHFGGKPVKQEP IK PSAVWPQPTPTPFLPTPYPPY PK VHPGLMFPFFVPSSSPFPFSRHT FLPKQPPELLPRKAEPQSEET KQKVERVDVNVQIDDSYYVDV GGSQKRWQCPTCEKSYTSKYN LVTHILGHSGIKPHACTHCGKL FKQLSHLHTHMLTHQGTRPHK CQVCHKAFTQTSHLKRHMMQ HSEVKPHNCRVCGRGFAYPSEL KAHEAKHASGRENICVECGLDF PTLAQLKRHLTTHRGPIQYNCS ECDKTFQYPSQLQNHMMKHK DIRPYICSECGMEFVQPHHLKQ HSLTHKVLRLGWGGRGLGK RSGALSRLGSRTPVPLCTLPR GGLQGEIQAQSEFSPVCNHSP GVIQAEKQGPSGVPEILPQLNS CPTKGTCRYYPEGSRLPSAGTI NKGPRLGFSRKGDSLTS GAPL YVGKESKVHFRAYEDPGVKEH KCGICGREFTLLANMKRHVLIH TNIRAYQCHLCYKSFVQKQTLK AHMIVHSDVKPFKCKLCGKEF NRMHNLMGHMRLA\RNGKPLK RLYCPSKFTLKGNLTRHMKVK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9407	39775	A	9467	1	1309	MRIQQLCGHLWQQKKISLELM SSFHKILKNKMGC GVTPDSKEL LK YLSYCNSYPLTGSPQEAPVS DVPLPVSKCSHCSVQLIMCLRP EHIPNSPGIKGQGIKQHEEKHPT LLHLDASHLMTCFV VEMTL YV LIAGFKSLCSIHSYPPRTL RHLC EKVWDSLLENERRHEKRG PAN FLHRLPAEHQWGIVQSSNIMAG LSARLQLFLEHRPFPVFELTAN GCPTKGLQGEIQAQSEFSPVC NHSPGVIQAELKQGPSGVPEILP QLNSCPTKGTCRYYPEGSR LPS AGTINKGPRLGFSRKGDHSLTS GAPLYVGKESKVHFRAYEDPG VKEHKCGICGREFTLLANMKR HVL IHTNIRAYQCHLCYKSFVQ KQTLKAHMIVHSDVKPFKCKK SFTAQGNSAPQEDAGSQGE/PV CLL/CPNWGQRKGRAWRH LRH
9408	39776	A	9468	3	4804	KRL ENIQKTLEVA FSEAVWMQ PSVLLDDLDLIAGLP AVPEHE HSPDAVQSQR LAHALNDMIKE FISMGSLVALIATSQSQSLHPL LVS AQGVHIFQCVQHIPP NQE QRCEILCNVIKNKLD CDINKFT DL DLQH VAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLD FQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLP IRQRT GILLYGPPGTGKTL
9409	39777	A	9469	2	1844	
9410	39778	A	9470	3	772	VPNPYTLLSQIPEEAEWFTVLD LKDVFFCIPVHPDSQFLFAFEDP LNPMSQLTCTVLPQGFRDSPHL FGQALAQDLSQLSYLDTLV LQ YVDDL LLAACSETLCHQATQA LLNFLATCGYKVSKEAQLCS QQVKYLGLKLSKGT KALSEECI QPILAYPHLKT LKQLREFLGITG FCRIW/NFQALLLERPVLQLCTC ATLNPVTFLPDNEEEYNCQQII SQT YATR GD LLEVPLTDPDLNL YTDGSSFVEKGPQKA

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9411	39779	A	9471	1	6504	MWGSDDLRLAGAGGGGA AVTVAF FTNARD CFLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQLHLLDQI RIVFPKAI FVPVWVDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFS FQSEKKQETSWG LTEINAFKNMQSKVVPL
9412	39780	A	9472	2	1658	
9413	39781	A	9473	1	617	MCSWTAPVSSILTHPNWPVLR MAGLTGCASVAMKKKIEHNCQ QVIAQTFTTRGDLLEIPLTDPGL NLYTDGSSFVEKGLRKAGYAV VSDNGILESNPLTPGTSAQLAEL IALTWAPELEEGKRVKRKKAI WREREFLTSEGTPIKHQEAIRRL LLAVQKPKEVAVLHCRGH/QE GNCQVDIEAKRATRSQVARGH KICDFPSCSYR
9414	39782	C	9474	587	715	
9415	39783	A	9475	96	269	
9416	39784	A	9476	1	1398	
9417	39785	B	9477	1	1152	
9418	39786	A	9478	3	241	
9419	39787	C	9479	202	534	
9420	39788	A	9480	108	199	
9421	39789	A	9481	125	352	
9422	39790	A	9482	2	325	RRSLALSPRPDCGLQWHNLGSL QAPLPGFTPFSCSLPSSWDYRR PPRPANFLYFLVETGFHLVSQ/ SGDLLTS\DP PASASQSAGITG VSHRARPQNLFKVRCP E
9423	39791	A	9483	184	383	LGLQ\WRNLGSLQAPLPGFTPF S\CLSLPSSWDYRRPQRPANFFF FVFFLVKTGFHLVSQG\GLDLL TS*SHPASAFQSAG\IGVSHRRP AITLQF
9424	39792	A	9484	1	416	MGRSFLGGGSTLMLLGGGQLH ILTPSFPSWTETGNYTCEFCGKQ YKYYTPYQEHVALHAPIRNSA KDDHRSASILSEN RGSHQ/SHAS CHHHYHCHYYHQHHHCLHHH SYHHHHCHHHRGMWRNWDTV LWIHQTPVQD

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9425	39793	A	9485	3	534	GRRQRRSRHLLHRRQDRQSAP GSGSKIPQK\KVKLAADDDDD DDEEDDFDDEETEEAPVKKSIQ DTPARNAQKSDQNGKVSKPSS TPRSKGQESFKKQEKTPKTPKG PRSVEDIKTKMQASIEKAHGTV LGTTVGNIPLRGGNQEKFHGAA GVWFGKFGVQRKIQQKQLQKD VTSGS
9426	39794	B	9486	44	924	
9427	39795	B	9487	41	2197	
9428	39796	B	9488	67	1507	
9429	39797	A	9489	134	311	
9430	39798	A	9490	5	1545	EKIQINTI/KNDKGILPLDPTEIQI TIREYYEHLIAHKLENLEEIDK FLDIYTLPRLNQEELESLNRKPN TACSNLRDGSLLLDGHHGSSIQ AAIEVVGAGSVATKGRGRQDD TDPSNRYHRPPYSQEEKEQCITL LLSWCLGDSQGPQCRPQLSLQE LRREFTVSLHLARKLLSEVRGQ AHRFVSPNNAAGAGDGQTPNPF WPPLTDLAPQAESHLPGVNLYL LPLGEQLPDVSLTFQAWRRLSV KCTAVRAYQTTRVVETSSCRL HVKGASNASTHRSPKEVTQGT NKSERRTRETQRAIRERNMAGC CTCATDVLVTLQSLMEGLALQ PQTRALLGSASIKASCAVTII LMSENLGKGCSSKSEGMVRRY AKHKKQEIKPYQYQRKSPSLERG QEEKKVGREDDRESENQYLYG PSNISEARNRLEPCGRMGLGYV ARLFLGDRRSSTPSFASYPSSL VTYGHRRSCRVS DIRVPRLGPN VGGPCKGTGIDLQCEREKKNEE
9431	39799	A	9491	32	2123	
9432	39800	A	9492	1	911	MSTLKGLIIKIIISVMIASEFILEE RIKTGLNAAKHCF AAPSQAASH TISRPIPMPIRSASACSTPHTPQ DSLTVGGDVQEAF AQSSRRN LRNDLLVAADSITNTMSSLVKE LNSEVGSETESNV DSEFARTQF EDLVPSPTSEKAFLAQIHARKP GYIHSGATTSTMRGDMVTG\DA NPYVQPEDENYENDSVRQLEN ELQMEEYLKQKLQDEAYQMPL VPTKKEIHMEDFLSSLPEGAIAQ CPRTFIPDCRRKGASYSQTDDSES NMKTGDDGEP CGHTEEDSSL AAASPKRGTTTPSSS

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9433	39801	A	9493	2	2233	
9434	39802	C	9494	477	737	
9435	39803	A	9495	2	746	GQATHFMAKEV*QWAHAHGIH WSYRVPHHPEAAGLIEWWDCL LKSRLQCQLGDNTLQAWGKVL QKAVYALNQCPITYGTVPIDRI HGSRNQRVEVEVEVAPLTITPS DPLAKFLLPGLTTLCSAGLQVL VPEGGMPLPGDTTITPLNRKLR LPPGHFGLFLPLSKQAKMRVTA LAVVIDLDYQDEISLPLHNGDK EYARSTGDPLELLVLPCPVIE VNGKLQQHNLGRTTNGPDPLG MKVWVSPPG
9436	39804	A	9496	70	532	HVALLMPLQNSRSFSGYGFAYP ARNTFSKTTIHGLKECLIHGHI PSSIASDQGTFLPKEV/RKWAH AHGIHWSYHVPHYEAASP/HS DPLAKFLLPVPTTLCSAGLAVL VPEGGMPLPGDATMIPLNLSSR SHLGMPTTSLKVVRMCSKDKY
9437	39805	A	9497	51	408	CVPEPRTPSLGFQT/HPAAHAPG AQAPGSAH/DRLSSAGPGSRAA PRAPWRPWITIGYSESQPTVLAR GQPWPGRGVSGSSAPSVPSALR GPPRSSRPSCTWWCLWRCRH RDLGRDINFTL
9438	39806	A	9498	3	618	SSCAFSHRSSRPSRCHTVRRSTA PCAAS*HSSRAPKRHWALPGSS G*S/WRETPSTHW*P*TLPRWRT ALRPSQ*PRPRVFRVRKPCSSRP PTITRCALASAQ*SCAAIPTSSLA QRKSSRSPRRATTWGTARRSR AHAVPAGRSPAPSASPAPPQAP RAWSAAPASPSRLSSAGRGRQ AAPRAPWRLRGPPRSCRIPTCCT WWCP
9439	39807	B	9499	215	293	
9440	39808	C	9500	1	1170	
9441	39809	C	9501	25	481	
9442	39810	A	9502	27	265	
9443	39811	A	9503	2	326	GRVGGRVGSDLGRGDMAKRT KKVGIVGKYGTRYGA/SRVRK MVKKIEISQHAKYTCSF\CGKT KMKRRAVGIWCCGSCMKTVA GGAWTYNTTSAVTVKSAIRRL KELKDQ

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9444	39812	A	9504	2	1125	RVGRPPLPPRPTHPRRKPLPPNN VTGKPGSAGIISGPITTPPLRST PRPTGTPLERIETDIKQPTVPAS GELENITDFSSSPRETDPGLGK PRFKGPHVRYIQKPDNSPCSITD SVKRFPKEEATEGNATSPQNP PTNLT VVTVEGCPSFVILDWEK PLNDTVTEYEVISRENGSFSGK NKSQMTNQTFSTVENLKPNTS YEFQVKPKNPLGEGPVSNTVAF STESADPRVSEPVSAGRDAIWT ERPFNSDSYSECKGKQYVKRT WYKKFVGVQLCNSLRYKIYLS DFLTGKFYNIGDQRGVHGEDHC QFVDSFLDGR TGQQLTSDQLPI KEGYFRAVRQEPVQFGEIGGHT QINYVQWYECGTTIPGKW
9445	39813	A	9505	2	385	REAGSGGNDNFARRRNFSG\RG G\FGG\SRGGVWIWVAVGDGY NGFG\NDGSNFG\GGGSY\NDF WENTNKSGLQNFPGHEGGEIFG GQKLLAPYGGWRPNTFAKPTK PQGG\YGG\SSSS\SSYGKWPEDF
9446	39814	A	9506	945	2313	TRVLLESRAGSQQSEGEASWQ RGYARPSCQAAISFPEHRRALR ALWAGDCRVADAGPGSSSTPP SPPSLPKTSVSLGFLCFKKS LAA SCASGRERQLEA*VWASQPLSP TQWSEGLGV RVWASQPLSPT QWSEGG/PGGPSVGISTSLTYPV EGRT/GWGPECYVFCMLHRLPE QHDCTFDHMGRGREEAIMKM VKLDRKVGRSCQRIGEGGQED DVVASILVSMQPHSPRTSPHLP YSKFKDFSSCNCARQG WKEMG ACVQRPSAVLGGTRPVSVQAK QPLPCFLLGASALGSCGTGLGV KDRDIDRIVVMSVMKILRGNQR PSGDEQARGQRAREGLGGLGV RRACREQWAVLCPLVHRNWV CVSSFLIASQSNSPQQQHNCY ANNSPQQEEGMVGRQAETFL GGVRNRKPWVGVRGLQGS QQHIQGA VSSPSPKKG VSKRE
9447	39815	A	9507	3	684	

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9448	39816	A	9508	15	513	RIRLEGLWGSSKTMNLCSCFA DFQKKQPDDDSAPSTSNSQSDL FSEETSDNNNTSITPTLSPSQ QPLPTELNVTSPSKEEYSQSENE ASPVKRPRLLENTSEETSRSK QKSRRRCFQCQTKLELVQQEL G\MCRCGYVFCMLHRLPEQHD CTFDPHGAVAGR
9449	39817	A	9509	818	1455	SDYITRDGASFTKALLTWKNPV PNFFWKKDTFKLWGEVIRSTM WKT/DQSPSAAWMGFGAQQP QQQAPPPVIPPNNQAGYGMASY QTQILPSPHILAVFMLPERGPNP DPKRGFLDLARKNLGNWVSTIT FLSRFPGVQVLQEFVVPGT MPL LRPLELPMHFNPHFSTALASLIA DELYLLPQLSVSQMGESFPSFD MMAICAQASTNRLWMP
9450	39818	A	9510	1	1132	MMEDDGQPRTLVVGNL SRDVT EVLILQLFSQIGPCKSCKMITEH TSNDPYCFVEFYEHRAAAAAL AAMNGRKILGKEVKVNWATTP SSQKKDTSNHFHVFGDLSPEI TTEDIKSAFAPFGKISDARVVK DMATGKSKGYGFVSFYNKLDA ENAIVHMGQWLGGQRQIRTNW ATRKPPAPKSTQENNTKQLRFE DVVNQSSPKNCTVYCGGIASGL TDQLMRQTFSPFGQIMEIRVFPE KGYSFVRFSTHESAAHAIVSVN GTTIEGHVVKCYWGKESPDMT KNFQQVDYSQWGQWSQVLGN PKPSD\RYMANGWQVPPYELY GQPWNQQAQFGV\DQSPSAAWM SGFGA\QPP\QQQAPPPVIPPNN QAGYGM\ASYQTQ
9451	39819	B	9511	1	1212	
9452	39820	A	9512	1	1032	

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9453	39821	A	9513	17	976	SGRP/GGPGGPGMGKPRCF/RGE VFGIVIRGPGFPFPGGRGRGR\GR GARGGKGPRKGLGCPSTKLG\ RLVKDH*RSKFPWRRSIYSYSG PLKESE\IDF\FLGGLLSKDEVFE RLCQVQEPEPVPQORHQGSRHF VA\NGNYQWPTVGSGLKCSQE /VWPTAHPVGPIILAKLLHSSPC AEGYWGEQSIGKAP/HTVPCQ/ VWTGRCGSVLVRPHPWHPRGS GIVSAPVA\KKLLMMAGIDDCY TSARGCTATLG\NFAKAT\FDAI SKTYSYLTPLDWKETVFTKSPY QEFTDHLVKTHTRVSVQQTQA PAVAYNIGFLYKKNKVN
9454	39822	A	9514	1	866	
9455	39823	A	9515	1	1793	MAAAAVSGALGRAGWRLQL RCLPVARCRQALVPRAFHASA VGLRSSDEQKQPPNSFSQQHS ETQGAEKDPESHSPRYTDQ GEEEEEDYESEEQLQHRILTA LEFVPAHGWTAEIAEGAQSLG LSSAAASMFSGKDGSELILHFVT QCNTLRLTRVLEEEQKLVLQGG AEKRKTDQFLRDAVETRLRMLI PYIEHWPRLSILMLPHNIPSSL SLLTSMVDDMWHYAGDQSTD FNWYTRRAMLAAYNTTELVM MQDSSPDFEDTWRFLNRVND AMNMGHTAKQVKSTGEALVQ GLMGAAVTSPRSRRGGWWPLG EMPYANQPTVRITELTDENVKF IIENTDLAVANSIRRVFIAEVPII AIDWVQIDANSSVLHDEFIAHR LGLIPLISDDIVDKLQYSRDCTC EEFCPECSVEFTLDVRCNEDQT RHVTSRDLISNSPRVIPVTSRNR DNDPNDYVEQDDILIVKLKRGQ ELRLRAYAKKGFGKEHAKWNP TAGVAF\EYDPDNALRHTVYP KPEE\WPKSEYSELDEDESQAP YDPNGKPERFYYNVESCGLRP ETIVLSALSGLKKKLSDLQTQLS HEIQSDVLTIN
9456	39824	A	9516	3	176	FFFFAETNSK*ITYQNIHIMVEI FQNSIFWDLYTKDKQIRGQEA RREKRGLGRPL
9457	39825	A	9517	1485	1679	RVGDAGHDDPGKPGPPGAGHR PEG*TGHAHSLRAGLPACRAEPA GPGRAREGSKAPGHCAEELLQ

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9458	39826	A	9518	1	232	FFFFETESCSVAQAGVQWCDLG SLQTLPTG/SSRHSPASAFRVARI TGARYHVRLLIFVFLVQTGLHHL GQADFDLLTS
9459	39827	A	9519	1	2408	GTLVTKVAPVSAPPKVSSGPRL PAPQIVAVKAPNTTTIQFPANLQ LPPGTVLIKSNSGPLMLVSPQQT VTRAETTSNITSRPAVPANPQT VKICTVPNSSSQLIKKVAVTPV KKLAQIGTTVVTTVPKPSSVQS VAVPTS VVTVPKPLNTVTTL KPSSLGASSTPSNEPNLKAENSA AVQINLSPTMLENVKKCKNFLA MLIKLACSGSQSPMGQNVKK LVEQLLDAKIEAEFTRKLYVE LKSSPQPHLVPFLKKSVALRQ LLPNSQSFIQQCVQQTSSDMVI ATCTTTVTTSPVTTTVSSSQSE KSIIVSGATAPRTVSVQTLNPLA GPVGAKAGVVTLHSVGPTAAT GGTTAGTGLLQTSKPLVTSVAN TVTTVSLQPEKPVVSGTAVTSL LPAVTFGETSGAAICLPVSKPV VSFCWDH\CKPVIPTPVQIKLA QPGPVLSQPAGIPTGSS\KQLFS LFHV VQQPSGGNEKQVTTISHS STLTIQKCGQKTMVNTIPTSQ FPPASILKQITLPGNKILSLQASP TQKNRIKENVTSCFRDEDDIND VTSMAGVNLNEENACILATNSE LVGTLIQSCKDEPFLFIGALQKR ILDIGKKHDITELNSDAVNLSQ ATQERLRGLLEKLTAAIAQHRMT TYKASENYILCSDTRS QLK FLE KLDQLEKQRKDLEEREMLLKA AKSRSNKEDPEQLRLKQKAKE
9460	39828	A	9520	1	637	MLSNVKRGRKLPNGTWAHDL VTPPTASLLLLLTPAMPSPAFC HSILIVTKGGVKRTRVPPNNSS GARTGNPLKVKHISFKTGDELIF LDPHTTQT FVDTEENG TGNDQT FHCLQSPQR\MNILNDPSVALG FFCKEEKDFDNWCSLVQKEILK ENLRMFELVQKHPSHWPPFVPP AKP\EVTTTGAEF\NDSTEQL\EEF DL\EEDFEILSV
9461	39829	A	9521	3	176	
9462	39830	B	9522	1	792	

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9463	39831	A	9523	2	486	NGHVGLGVKCSKEVATAIRGAI ILAKLSIVPVRRGYWGNKIGKP HTVPCKVTGRCGSVLVRIPAP RGTGIVSAPVPKLLMMAGIDD CYTSARGCTATLGNFAKATFD AISKTYSY\LTPDLLKE\TVFTKS P*QELTDHLVKTHTRVSVQRT QAPAVATT
9464	39832	B	9524	1	2991	
9465	39833	A	9525	3	263	KHENWSTARQSLHACSRVTWQ NRLRLSNKWMPSHVLCLLP/H MTLQPANLSSLLITPPEFGPKIA SPICTSCSVNFPRTLISPFSHC
9466	39834	A	9526	1022	1201	
9467	39835	C	9527	1	924	
9468	39836	A	9528	2	837	WKNCLEKRSM LTMHRILES*D* RQE/ILERHDAKYHSPKAEKQ MKHKAGSQIVKKEEAKLALAL EGFCRFRNHHQTGFSPAGATQR GPLVAILSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGFPTGKRAWPPFRL FLPHKGFADWGPTINQDFRLLG QPSVARFLNFSQGPAGEGQSAV ARLPGHPFITQYPILPGYAAAG MQALARRRPILMFDSLSSNFCH SSAYYHLFRRSNQAFKGTNNCL KKITPRPATHRSTVVIH
9469	39837	A	9529	3	1137	APAPSPVSGSGCCLSHMFFHPPS RANRAFVDYAPMDEIQNAEIN SQVRRYLEGTLDEIDVRNPSVT TMLSQPGPPSPGHPTTHALLAS EPHVNGCKTVSTVHEDYSGSSE SSNDESSEDSTDSDDSSIPRNRL QSVVAVPKNSTLPMETSPCSS RSSQSYRHYS DHWEDERLESRR HLYEEKFESIASKACPQTDKFFL HKGTEKNPEISFTQSSRKQIDNR LPELSHPQSDGVDSTSHTDVKS DPLGHPNSEETVKAKIPSRQQE ELPIYSSDFEDVPNKSWQQTTF QNRPD SRLGKTELSFSSSCEIPH VDGLHSSEELRN LGWDFSQEK P STTYQQPDSSYGACGGHKYQQ NAEQYGGTRDYWQANGLLGS
9470	39838	A	9530	1	1857	

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9471	39839	A	9531	1	989	MEDWKVRGHQEKTLAFEVQSF SCSERETTLVLLRSPAVPQLLL HGLCGPDLSTKAAQCHFKAIW QSLGNTLGAVSDQATPGHVKS LPPGALISRQGRGQFCSVDAVF LLHDSPELPSSLPHGASLPLASS DKQAEQTWLGAVGSVQCTSIT ACPRDLEDRLPHEHPPAGVHC GQNPCPCHLIFTLYSKSLPLDLA CRIWDVFCRDGEEFLFRTALGI LKLFEILTKMDFIHMAQFLTR LPEDLPAEELFGPSIATIQMQSR NKKWAQEPGHELEWPDERSFRP RVLACPMGSREHRLQPACSGST GQGHTKALFPETCCQSPIFQDA
9472	39840	A	9532	2013	2270	
9473	39841	A	9533	3	744	
9474	39842	A	9534	190	991	SVLSNKQNHCSQTAPPPPPAA SGSRGWVWGLFWGLAAILEGS TGADWSQLPHSCCPSSLVPHVL SVVPLRPPHRDFPVEDVFTLPV YFSSDWLNEFWDALDVEDDYRF VYAGPAGSWSPFHADIFRSFSW SVNVCGRKKWLLFPPGQEEAL RDRHGNLPYDVTSPALCDTHL HPRNQLAGPPLEITQEAGEMVF VPSGWHHQVHNLDDTISINHN WVNGFNLANMWRFLQQLCA VQEEVSEWRDSMPDWHHHCQ VIMRSCSGIKL
9475	39843	A	9535	1	885	MKRRVMGPPQVQAWKALDL WESSQVMEGKAVVPMGRNPM MRKATQGQLENSPALEKLLPPL QGNVGFAFTKEDLTEVRDLLL ANKVPAATRAGAIGPCEVTVPA QNTGLGPEKISFFQALGITTGIS RGTTIELSDVQLIKTGDRVGAS EATLLNTPNISPFSGFLVIQQVF NNGSIYNPEVLDITEETLYSGFL EGVRNVASICLQTGYPPVASVP PSII/NGYKGCLALSVETDYTFPP AEIKTFLADPSAFVAAAPVAT TATAAPAAAAAPTKEESEE LDEDMGFLFD

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9476	39844	A	9536	65	988	RTAVMPREDRATWKSNYFLKII QLLDDYPKCFIVGADNVGSKQ MQQIRMSLRGKAVVLMGKNT MMRKAIRGHLENNPALEKLLP HIRGNVGFVFTKEDLTEIRDML LANKVPAARAGAIAPCEVTVP AQNTGLGPEKTSFFQALGITT SRGTIELSDVQLIKTGDKVGAS EATLLNMLNISPFSFGLVIQQVF DNCSIYNPEVLDNITEETLHSRF LEGVRNVASVCLQIGYPTVAS VPHSIINGYKRVLALSVETDYTE PLAEKVKAFLADPSAFVAAAPV AAATTAAPAAAAAPAKVEAKE
9477	39845	A	9537	1	993	MREIALTQTRQCGKKIGAKVGI RGSEVPAPAYWVAREDVSGS GLGGGWYVPCAVLVDLEPVT MDSLRSFPGLIFRPTTSSLKLE NADKTFCIDNEALYDIYSRTLK LPTPTYGDMNHLLSATMSGVT MCLGFPQNLADLQKLSVNMV PFPRLHFFMPGFAPLTSRGSQH YQALTVAELTQQMFYAKNMM AARDPRHGRYLTAIAIFQGRM PMREVDQMFNIQDKNSSYFA DWFPDNVKTAVCDIPPRGLKM SGSFIGNNAIQELF\QCVSEQF TAMFRRKA\FLHWYTGEGLMDE \MEFTAEASNMD\LVSEYQQY QDATAQGGGG
9478	39846	A	9538	231	881	SSLSGTVGSLPFRLHWPVS YSSVTTRYHHRAGAEKGDRII FVTKKDHETPSSAELVADDPND PYEEHGLILPNGNINWNCPLG GMASGPCGEQFKSAFSCFHST EEIKGSDCVDQFRAMQECMHK YPDLYPQEDEDEEEEREKKPAQ QAEETAPIEATATKEEEDQVNE GHKALSTSPFGVDLLQKALSSP SKKVSFCCPVHYNIQNNLF
9479	39847	A	9539	1	804	

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9480	39848	A	9540	2	3337	SSLLEKMTSSDKDFRFRMATSDL MSELQKDSIQLDEDSERKVVK MLLRLLLEDKNGEVQNLAVKW LGVPLGAFHASLLHCLLPQLSS PRLAVRKRAVGALGHLATACS TDLFVELADHLLDRLPGPRVPT SPTAIRTLIQCLGSVGRQAGHRL GAHLDRLVPLVEDFCNLDDDE LRESCLQAFEAFLRKCPKEMGP HVPNVTSCLCLQYIKHDPNYY DSEDEEQMETEDSEFSEQESE DEYSDDDDMSWKVRRAAA
9481	39849	B	9541	1	3178	
9482	39850	A	9542	190	284	LNAQPGTRRLWPAEIRPPPRRL GKGGQQVSHHPPISCFYCECEE KRLCVNTHVWTK*T
9483	39851	A	9543	62	280	
9484	39852	A	9544	1	1452	
9485	39853	A	9545	2	998	ITAGATPEERVICFVEYYLTAFH EGRKGALAKKPYNPIIGETFHC SWEVPKDRVKPKRTASR/PLLP AVMNTQWPMTLPKSYKLRFVA EQVSHHPPISCFYCECEEKRLCV NTHVWTKSKFMGMSVGVSMI GEGVLRLLLEHGEEYVFTLPSAY ARSILTIPWVELGGKVSINCAKT GYSATVIFHTKPFYGGKVHRVT AEVKHNPTNTIVCKAHGEWNG TLEFTYNNGETKVIDTTLPVY PKKIRPLEKQGPMEARNLWREV TRYMRLGDIDAATEQKRHLEE KQRVEERKRENLRTPWKPKYFI QEGDGGWILQSPLESTLMGLEV
9486	39854	A	9546	12	740	HFFLYKKLIPFVLKNCMFHFSP VRGTVVTNDRWGAGSICKHGG FYTCSDRYNPGHLLPHKWENC MTIDKLSWGYRREAGISDYLT EELVQPLVETVFSAGNPLMDIG PHLDGTISVVFEERLRQMGSW LKVNGEAIYETYTWRSQ\NDT VTPDVWYTSKPKELVYAIFLK WPTSGQLFLGHPKAILGAT\EV KLLGHGQPLNWIFFGDKMGIM \VELP\QLT\IHQMPCKWG\WAL A\LTNVI
9487	39855	B	9547	1	627	
9488	39856	B	9548	47	504	

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9489	39857	A	9549	2	379	VDLVREFIERQ/HAKNRYYYH RQYRRVPDITECKEEDIMCMYE AEMQWKRDKVDQEIINIMQD RLKAFQQQSYRATQQGHPQAA SGGGSWRPLLQIFSLAASSASV RPGTSWQNCRRPPGPD LGKQ
9490	39858	B	9550	49	707	
9491	39859	A	9551	3	1162	
9492	39860	C	9552	342	581	
9493	39861	A	9553	3	513	LLPHKPLAGFFKAYLPSEPPRV YVSSFWPQ/EYKPDTHQELFLQ EEIS/LLEDLNQVIENRLENKI/A FIRQHAIRVRIHALLLARGLDPF IGPRRDWLVPYAVTGAVAFGF VEGLDPSQEHPRFQGTQDNVSK DESTRKEQSVRLVGC GADDRK PRDLQILDRDRKGPELVQ
9494	39862	A	9554	1	1365	
9495	39863	A	9555	771	1536	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCPTGSPQSLPPYAS IPPTSPSTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLGKFSDNPDGYIDVLQGLG QCFDLTWRDIMLLLNQTLTPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPD SGTYDTKE CKIVQSVEMSMEVMIAMSVQ RQQGKQTQQQPLL VVVRSAEP AEESVPHKSSTRGAS
9496	39864	A	9556	220	249	P*N**PSTLTGTGSTTT*QIRM KVN*MGN/DSPQGKNTPKMYS GEFSPVRVHVPFSLSDLKQIKID LGKFSDDPDGYIDVLQ
9497	39865	A	9557	2	385	
9498	39866	A	9558	84	849	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCPTGSPQSLPPYAS IPPTSPSTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLGKFSDNPDGYIDVLQGLG QCFDLTWRDIMLLLNQTLTPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPD SGTYDTKE CKIVQSVEMSMEVMIAMSVQ RQQGKQTQQQPLL VVVRSAEP AEESVPHKSSTRGAS
9499	39867	A	9559	66	197	RQWKG*KFVFQKM*DLGKYLQ RQLFCLSSLVQPPWPVPTEIYP
9500	39868	A	9560	1	2340	
9501	39869	B	9561	1	1776	

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9502	39870	A	9562	1	1349	
9503	39871	B	9563	107	769	
9504	39872	A	9564	329	2042	
9505	39873	A	9565	511	1631	HFGNHERTSKVMGNVPRKTKT PLRRILENWEQFDPQTLRKKRLI FFCSAAW\PEGSINYNTILQLD LFCRKGWSEVP*VQTFSLRD NSQLCKKCDLCPTGSLQSLPPY PSIP\TPSPLNKDPPSTQMVQKEI DKRVNSEPKSANIPQL*PLQAV GGREFGPARVHVFPFSLPDLKQI KTDLGKFSNDPDGYIGVLQGLG QFFDLTWRDI\MSLLNQTLPNE RSATITAARELGDLWYLSQVN DRMTTEERERFPTGQQA VPSAD PH*DTESEHGDWCCRHLLTCVL EGLRKTRKKAVNFSVMSTVTQ GKEENPTAFLERLREALRKHTS LSPDSIEGQLILKIKFITRSAADI RKQTSKVHLRPGAKLKTPY
9506	39874	A	9566	15	178	
9507	39875	A	9567	3	826	RQLGTRNFLNGTKAKAFELSYL EKVPEGKDTVHKQSLHHVGT MGGENFPDSSDLYSEIGAITRSA KDDFDQLQDNLCQMERRCIAS WDHLKAIKHEMKPLLKQRMS ELLKDCAERIILKIVHTRIINRF HSFLLFMGHPPIAIREVNINKFC RISEFALEYRTTRERVLQKQK RANHRERNKTRGKMITDSGKF SGSSPAPPSQPQGLSYAEDAAE HGEHEGCAENLVPLQESPAHTF SIVSAVFLIP*HPVY*FKSVTPF LGKEQPL
9508	39876	A	9568	1	670	

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9509	39877	A	9569	1	2426	MPKPSLEAGSCPRLEFPVEDAQ PVIKGEEFTPPPPNSYLALGDIST EEWDLEVAQEYQERMPPQRAA LICVFSWNLGRSLPAPAMRRPC QNFCVALSTFAGDPEPESEAEP EAEAGAGQVADEAGQDIASAH EGAETEVEQALEQEPEERASLS EKERQNEGVNERDNCSASSVSS SSSTLEREEKEDKLSRDRTTGL WPAGVQDAGVNGQCGDILTNG RFMLDMLYAHNRKSPDDEEK DGEAGRTQQEAEAVASLATRIS TLQANSQTQDESVRVDVGCL DNRGSVKAFAEKFNSGDLGRV FNAPQGLGWSQVPRGQPTFTK KKKTIRLFWNRN/VGLLTGH/G KNNRRCREFLWSKLEPIKVDTS RLEHLFESKSKELSVSKASKLV RPLFILTSACPFLSFPWKAPLHS STRQLHRGLSAQERWRCSGIRG MECLNGKGPLESRNPAYRKSE GTRQTGAGDMKDGWVQGVPA TPDTPQGMCTVCTVSFAIMDGL NVNSVGPLPFHEVAEPLDLKE GIDQLDYTLGFFFLVSMLSGGG LLGGSASAKAFELSYLEKVPEV KDTVHKQSLHHVCTMVVENF PDSSDLYSEIGAITRFHSFLLFM GHPPYAIREVNIKFCRIIEFAL EYRTTRERVLQKQKCRANHRE RNKTRGKMITNCVRHCVRMFS GSSPAPPSQPQGLSYAEDAAEH
9510	39878	B	9570	164	346	
9511	39879	C	9571	160	339	
9512	39880	A	9572	54	212	SFPSVVLWKDLQNLKIQVPLI LLGVGLISVPGGRI*LLRTGSRK PISQVCP
9513	39881	C	9573	48	185	
9514	39882	A	9574	2	551	ADRRGAVYPRSRDGGGVVRGPC AMATSVLCCLRSCDRGTGHIP LKDMLSVHMDTQHMGTDVVI VKNRGRKIFGTGGCLASAPLHQN KSYFEFKIQSTGIWGIGVATQK VNLNQIPLGRDMHSLVMKNDG ALYHNNEEKNRNPANSLPQEG D/VVDDSAILDCQFSEFYHTPPP GFEKILFEQQIF
9515	39883	A	9575	3	655	

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9516	39884	A	9576	131	1066	SHSSSAAAHPLGLLPIAAQSLA VFIEPWSQASSRGQLQ/VSAPGI WGIGVATQKVNLNQIPLGRDM HSLVMRNDGALYHNNEEK NRL PANS LPQEGDVVLCWSNNGHS LCKEESLSPILPTSDGEERRRKR KKRKRKRKRKQKQQQQQEEAAA PAEADAEATAAEAAVEEAAAR KEEEEEEGEEGEGNGEEEEKAA AAARGDWSQQEKACKSSLQAI LFGHAKLEPGRLPRPTQCRVEA TVLVGTNSPLDNPLWSISWSLW QKPVGTSQQQPLGLWTREFFLE GHLLTRNETFTEATPLIPEIGML SQMMSEEH
9517	39885	A	9577	1	2363	ELQRDIEKHSTGVASVLNLCEV LLHDCDACATDAECDSIQQATR NLDRRWRNICAMSMERRLKIE ETWRLWQKFLDDYSRFEDWLK SSERTAAFSSSGVIYTVAKEEL KKFEAFQRQVHECLTQLELINK QYRRLARENRTDSACSLKQMV HEGNQRWDNLQKRVTSLRRL KHFIGQREEFETARDSILVWLTE MDLQLTNIEHFSECDVQAKIKQ LKAFFQEI SLNHNKIEQIIAQGE QLIEKSEPLDAAIEEELDELRR YCQEVFGRVERYHKKLIRLPLP DDEHDLSDRELELEDSAAALSDL HWHDRSADSLSPQPSSNLSLF ASLQPLR SER\SGRDT PG\SVDSI PL\EWHDHDYDL SRDLESAMSRA LPSEDEEGQDDKDFYLRGAVG LSDVMIPESPEAYVKLTENAIK NTSGDHSAL ESQIRQLGKALDD SRFQIQQTENIIRSKTPTGP ELDT SYKGYMKLLGECSSSIDSVKRL EHKLKEEEESLPGFVNLHSTET QTAGVIDR WELLQAQALSKE RMKQNLQKWQQFNSDLNSIW AWLGDTEEELEQLQRLELSTDI QTIELQIKKLKELPESCWDHR\K AIILSINLCSPEFTQADSKESRDL QDRLSQMNGRWDRVCSLLEE WRGLLQDALMQCQGFHEMSH GLLLMLENIDRRKNEIVPIDSNL DAEILQDHHKQLMQIKHELLES

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9518	39886	A	9578	2	3248	ENAVGSWTDDLTQLSLLKDTL SAYISADDISILNERVELLQRQW EELCHQLSLRRQQIGERLNEWA VFSEKNKELCEWLTQMESKVS QNGDILIEEMIEKLKKDYQEEIA IAQENKIQLQQMGERLAKASHE SKASEIEYKLGKVNDRWQHLL DLIAARVKKLKETLVAVQQLD KNMSSLRTWLAHIESELAKPIV YDSCNSEEIQRKLNEQQELQRD IEKHSTGVASVLNLCEVLLHDC DACATDAECDSIQQA
9519	39887	A	9579	2	194	CSTSLMIREMQIKTTVRYHLTS ARMAIKKSK\NSRCWHGCGEH GTLLHCCNLWKERNVSYVSA
9520	39888	C	9580	105	215	
9521	39889	A	9581	1	210	MNSHFLKEDIQMANKHMEKCS \TLLMIREMQIKPTVRYHLTSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
9522	39890	C	9582	48	182	
9523	39891	A	9583	3	225	
9524	39892	A	9584	1	549	
9525	39893	A	9585	367	971	GVCLLGAPAGRRGSLLSLGLSLR GQGSYLSKNVAVPSEATTVREL HP**TSLQRPPSDPGGWVVLGF P\CNQFGHQENRQ\NEILNSLK VRSGPGGGFEAQLHGSSRKCEV \NG\SGAHLPLFAFLR\EALPVPS DDGPRAL*PTPKLI\TWFSGVFA TIVAWNFFEFKFL\VGPDGVPLR RYSR\AFQTIDIEPDIEALLSQGP
9526	39894	A	9586	1	129	
9527	39895	A	9587	1	406	PTVCERELCVFAFQTLGVMNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVVDPNDP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYGSGIYLSPMSSIS FGYSA
9528	39896	A	9588	2	634	SSNRSHIVKLPVNRRLKFMHTP HQFLLLSPPAKESNFRAAKKL FGSTFAFHGSHIENWHSILRNGL VVASNTRLQLHGAMYGSGIYL SPMSSISFGYSGMNKKQKVS DEPASSKSSNTSQQKKGQQS QFLQSRNLKCIALCEVITSSDL HK\HGEIWGCPI/SDHVCTRFFF VYEDGQVG DANINTQEGGIHK EILRVIGNQTATG

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9529	39897	A	9589	3	3623	FGVCARGCLDSAGPWTMSRAL RPPLPPLCFFLLLLAAAGARAG GYETCPTVQPNMLNVHLLPHT HDDVGWLKTVQYFYGIKNDI QHAGVQYILDSVISALLEDPTR RFIYVEIAFFSRWWHQTNATQ EVVRDLVRQGRLEFANGGWV MNDEAATHYGAIVDQMTLGLR FLEDTFGNDGRPRVAWHIDPFG HSREQASLFAQMGFDGFFFGRL DYQDKWVRMQKLEMEQVWR ASTSLKPPTADLFTGVLPNGYN
9530	39898	B	9590	1	3839	
9531	39899	B	9591	1	513	
9532	39900	A	9592	1	233	KQELNEPPKQSTSFLVLQEILES ENKGDPNKPSGFRSVKAPVTK VAASIGNAQKLPMCDKCGTVL QQASAAAFSLSV
9533	39901	A	9593	3	469	LTVARSEHKVWSPLVTGEGKR HPYKMNLASEPQEV LHIGSAHN RSAMPFNASPASSTTARVITNQ YNNPAGLYSSENISNFNN\ASSL VIDKESEVYKMLQEKQELNEHP KQSTSFVWLQEILESEEKGDPN KPSGFRSVKAPVTKVAASIGNA
9534	39902	A	9594	1	1146	MTTQQIDLQGPWPWGFRVLVGR KDFEQPLAISRVTPGSKAALAN LCIGDVITAIDGENTS NMTHLE AQNRIGCTDNLT LTVARSEH/ KKVWSPLVTEEGKRHPYKMNL ASE\ PQEV LHIGSAHNRSAMPFT ASPASSTTARVITNQYNNPAGL YSSENISNFNNC/ALESKDWLPA GVEANSRPLDHA\QPPASSLVID KRILKVYKMLQEKQELNE\PPK QSTSFLGFCQEIL\ES\EEKGDPN KP\SGFRSV\KAPVT\KVA\ASIG KCSRKFAFCVDKCVHLGFLGV F\LKLR\DRHRHP*VFMCC\TDC GHQT*KQKGPFLLWMDQ\IYCE ESMAPGSEVNTHPEG\YESGST VFPPSGAQQDLDPFLPAGLLL KLFLKCSGPLSLS
9535	39903	A	9595	65	353	

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9536	39904	A	9596	1	1974	MNGVPVGAQKRVDKEEVKNG AIAELFSEDWSDCAYKANEVSR IRPLEESELLYPILGQSKLFVLSG EWSQSSEEASEEVAVTLIYQLA ESPTVICAQIWQGCQALEKL EEKRTSQGDPKESPTMLPTLL MNLLSLAGDVALQQLVHLEQA VSGELCQRRVLREEQEHTKDP KEKNTSFETTMEEELGLVGAA DDTEAELIRGFCKMELLDGKQT LAAFVPLLLKVYNNSGLYSNP LSAAASPTLGKFCMISTTFCNSQ PHLLFTMLEKSPPIVRSNLIVA TGDIAIHFPNLVDPWTPHLYAH LQDPAQPVWKTVGLVMTHLIL KDMVKVKGQSKAL/RKMLGNF DCFGDKLSDESIFSSFLSVMGKL QHGAKEGKAIIDFEQKLQAC HARGLDGIEELINQAGSQRAP TAKKPSTVCRHQPLASAASN DFVTPEPRRTTHRHPNTQQRAS EKKPKVVFSSDESSIKTEVEGLG YNIKL RVATQRLSFVWVMNIA EGESAVLVTVAWPECEVAVMG SLGSAARGTGKRLQEGNLQL NFVTIATKLEVS WT ELGGGCVS ALFASVGT KREKAGFYQGCSF ASNIMKRG RVKEVEDVQKR LI KMTVEFN LAWSSLPPHMAMN GDQGGDRVTHESFLRCMTLMR
9537	39905	A	9597	785	5049	ACRSRMAPQMYEFHLPLSPEEL LKSGGVNQYVVQEVLSIKHLPP QLRAFQA AFRAQG PLAMLQHF DTIYSILHHFRSIDPGLKEDTLEF LIKGVYGS GVSRHSQELPAIL DDTTLSGSDRNAHLNALKMNC YALIRLLESFETMASQTNLVDL DLGGKGKKARTKAAHGFDWE EERQPILQLLTQLLQDIRHLW NHSIIIEEFVSLVTGCCYRLLEN PTINHQKNRPTREAITHLLGVA LTRYNHMLSATVKI
9538	39906	C	9598	134	382	
9539	39907	A	9599	117	235	KIAAPQLHVFLPFLFFCMRPFAP WQPLPEPLELRPRLSD
9540	39908	B	9600	1	732	
9541	39909	C	9601	1	420	
9542	39910	B	9602	110	928	

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9543	39911	A	9603	1	868	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSLRLSEMPRKQGD YRTRIWKFEGLSNVLVIQLNK LIICVMCLDLALKGLRVLLVEG NDPQGTASMYHGWVDPDLHIHA EDTLLPFYLGEKDDVTYAIYFT CWPGLDIIPSCALHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVIVIDSAPNLGIGTINVV CAADVLIPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEPPD PTGNRTVQLTWQPLPEPLELC*
9544	39912	A	9604	1036	1119	
9545	39913	C	9605	1	513	
9546	39914	A	9606	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLSHFEGWGLTDCVV MRDPNTRSRGFGFVTYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYKGIE VIEIMTDGRSGKKRGFAFVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQRGRS GSGNFGGGRGGGFGGNDNFRGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
9547	39915	A	9607	1	286	
9548	39916	A	9608	1	1674	
9549	39917	B	9609	531	744	
9550	39918	A	9610	1	818	YNRAMFHPPHAVNKIALSLNNK NP\RSKVLFLELLAAVCLVRGG HKLFYLAFDNFKEVCGEKQRFE KLMEHFRNEDNNIDFMVASMQ FINIVVHSVEDMNFVRVHLQYEF TKLGLDEYLDKCLKHTESDKLS\ VQIQAYLDNVFDVGALLEDAE TKNAALERVEELENISHLSEK LQDTENEAMSKIVELEKQLMQ RNKELDVVREIYKDANTQVHT LRKMVKEKEEAIQRQSTLEKKI HELEKQGTIKIHKKGDDGDIILP VVASAHCPWGQKW

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9551	39919	A	9611	1	937	MALLTLKQQQNEDLQDISHFTT TRTPRQGTTPVQKEKSEETRL ARRMLRRDQHSTKGKVVKRM RGFLVGLVYCDKQSGALESLLC LWNVSGNTTLSSLVEIGSKAAL GLVCGEKQRFEKLMEHFRNED NNIDFMVASMQFINIVVHSVED MNFRVHLQYEFTKLGLDEYLD LLDTKSTDRKQTLHYISNVVK EQYHQVSLFYNELHYVEKAAA VSLENVLLDVKELQRGMDFTK REYTMHDHNTLLKEFILNNEGK LKKLQDDAKIAQDAFDDVVKY FGENPKTTPPSVFFPVFVRVKA YKQAEEN/NMELRKKQEALM EKLLEQEALMEQQDPKSPSHKS KRQQQELIAELRK\RQVK\DNR HVEYEGKDGAIEDIITVLENVLL DVKELQRGMDFTKREYTMHD HNTLLKEFILNNEGKLKKLQDD AKIAQDAFDDVVKYFGENPKT TPPSVFFPVFVRVVKAYKQAE
9552	39920	C	9612	47	286	
9553	39921	A	9613	1	423	

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9554	39922	A	9614	1	2015	MPSVSKAAAAALSGSPQTEKP THYRYLKEFRTEQCPLFSQHKC AQHRPFTCFHWH/FPQTRRRR\A PLGRRDGTFNYSPPDVYCSKYNE ATGVCPDGDGDECPYLHRTTGDT ERKYHV\RYKYKTGTCTIHETDAR GHCVKNRLLHCAFAHGPLDLRP PVCDEVRELQAQEAALQNGQLGG GEGVPDLQPGVLASQAMIEKIL SEDPRWQALLPVALLRHRVAH FSDANFVLGSYKTEQCCKPPRL CRQGYACPHYHNSRDRRRNPR RFQYRSTPCPSVKHGDEWGEPS RCDGGDGCQYCHSRTEQQFHP EGPVRESGVRGVFCVQSRRPW LQTPVSGTQLKWSWHHVGHRSR TINPEGDKPSRLGPAPENIKRGN DFACDGRADAAGMAPHVCVFP IYKSTKCNDMRQTGYCPRGPFC AFAHVEKSLGMVNEWGCHDL HLTSPSSTGSGQPGNAKRRDSP AEGGPRGSEQDSKQGVRAHGV YVFEQNHLAVFAAVHPPAPSVS SSVASSLASSAGSGSSSPTALPA PPARALPLGPASSTVEAVLALE PTPSSPTSSAVQGVAGELGMGS GGQGCWSHVVGALAAVPAWT HSGDLEWDPSTIRTRVNVGGGP AARPAMTLAREPQLLVVGGCP TRNCSGPAASPQQLDDAGQG GRGERDSSQRPLRPQTTHRQDT
9555	39923	A	9615	2	609	IHSLCVSPCLSPCHCLSLSPASLL VSFFCCLFLMTLFPCLVCGLSP VHLLPSL/HFLSQVLNEYFHN CELDLVFNFYKVECFPLKSPV PESKEIGSQVDGQSRMEQRSPA HTNRENDIAREGGSEETHSKPG KGNLEFRFRCSHLQLGECPIPP WQKERTIAQGPEPEARAAPVA GRHDTRHAVNAGCALIGSLRRP WGGA
9556	39924	A	9616	60	277	
9557	39925	B	9617	43	354	
9558	39926	A	9618	3	309	GGGQGRPGAGGQGRSDGGGQ GSPGGGSQGSPPGSGGVGQGS RGGQGKPGGGGGQGSPPDGGGR PLAGGASGRRGSRGQAQ/CPISV SATHLAF
9559	39927	A	9619	36	363	

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9560	39928	A	9620	1	512	MLMPGLSACVRDCVAFLQAVV LGDPSAAQCQDWTLAASAD GTCKAVGTEDGSVYFISVYDKE SPQVVHKAFLSESSVQHVVYD QQGIFLLVGTAEGKVFIINANSS SSFQIHGFT/DGGQRHFTDIHSVS FRNRHSGSDGAFLASRSREKQV GDVHTAYITATSFHNLC
9561	39929	A	9621	1	822	MKLGV/QVVITDHEKLDQIRQR ESDITKERIQKILATGANVILTT GGIDDMCLKYFVEAGAMAVRR VLK/RIAKASGATILSTLANSKA HTSASIILRGANDIMCGEMERSL HDALCVVKRVLESKSMVPGGG AVEAALSIYLENYATSMGSQKE LAIAEFARSLLVIPNTLAVNAA QDSTD LVTKFRAFHNEAQVNP EHKNLK WIGLDLSNGERGDNK QAGMFEP TIVKV KSLKFATEAA ITILRIDDLTKLHPESKDDKHGG YEDAVHSGALND
9562	39930	B	9622	625	1162	
9563	39931	A	9623	202	402	
9564	39932	A	9624	350	652	SAGGYPDGQGVHPGPPELFAAL GRLGHTLREHGHHLLRYHRPG HMGRRLPCRMGHREPGSLH* QDCPRAWQWCWPHRPGHLQD VPPPGIHLQRLSQPGP
9565	39933	A	9625	83	1503	SWNTPYNHWATKQ/LSSHYSR GGAKYEGEAVKQSLVESYTHP NSNETERSANIDTMNWFTE DFDFVTLCYREPDNVGHRFRPE AENRKLMIQQIDRTIRPWDDHR EEETQCQDPLSNYIKFMDLVK FDIVGYGGFGMPLPKLGQEEAL YQALKNAYPHLHIYKKEGFPEH FHLAKHDRVLPVIMYANFGYSI NGISLLYFYTHLCDKYFNVHFF HEPLSLWRAQTTPSLSHRYISLV RHMDATNLDASEAQLPGSPYP DSAPGPANLDSTQDLPQRRLSW PYPRPRPPNAHPGALQPAPRTL LLTLPPGPAPSLPPRTALGPPPL QSRPGFRPVSRQRCGPAHFMAP EENAGTELLLSQSFERRFLAART LRSFPWQGGGGRAERPAGLAG VQGQTGWVSVLKPPALLPREFL GSPRSGPRDPVPVPGAWPKSLA PLLPRELAAEDEGVSTALGGQT RARCGVQFTIIFTTF
9566	39934	B	9626	1	1177	

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9567	39935	A	9627	1	283	
9568	39936	A	9628	1	708	MPKGKEAKGKKLALAPAFVKK QEAKKVVNPLFEKRPKNFGIGQ DIQPKRDLTCFVKWPRYIRLQW QRSILYKQLK\PETKQEKKWRL LAQAE/SVGKGDLPMPKRLPVFR AGVNTVTTFVDNKKAPLVVTT HDMPIELTVFLPVLCCHKMGA TCCHKGKARLGCLVHRKTYTT VDFTQVNSEDKGALAKLVEAI GTNYNARYDETHCHWDGNVL GPKSVAHIAKLEKAKAKELAT
9569	39937	A	9629	1	836	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKR\PK NFGIGQDIQPKRDLTRFVKWPR YIRL\QRQRAILYKRLKEPPAIN\ QFTQAL\DRQTATQLLKLAKH\ YRPETKQEK\KQRL\LARAEKK AA\GKGDVPTKRPPV/LFRAGV KQSPPLVENKESFSLVVISH\D VDPIELVVFLPALCRKMGPVY CIIKGKARLGRLS\HKKTCTTVA FTQVNSEDKGALAKLVEAIRTN YNDRYDEIRRHWGPNVLGPKS VARIKLEKAKAKELATKLG
9570	39938	A	9630	3	119	
9571	39939	B	9631	1	711	
9572	39940	B	9632	97	942	
9573	39941	A	9633	1	588	
9574	39942	A	9634	1	1029	
9575	39943	A	9635	1	1031	MADQKEARHSASQWKCFVGFL SFRGHMQVAWEADRCKGPGRP LLAEALQDLWSPRRSQRDPVP ERPCRRPQQSPLPRFGSLSAPLH RENNFIKDFPQLADGLLVIPLPV EEQCRGVLSEPLPDLQLLTGDIR YDEAMGYPMVQQWRVRSNLY RVKLSTITLAAGFTNVLKILTKE SSRELLSFIQHYGSHYIAEALY GSELTCHHFPSKKVQQQLWLQ YQKGFLGEPKKILGSSLPRTQF LWKNNHLITKQTVSILSCGEAFI LRKGQQISFSSDSQLLSELEFLR PGAGDQSLPHTLVKVIPFPQFS L/LCEMGTFILFCNINCAWGRG RGERYSQSC

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9576	39944	A	9636	3	4091	FASASAVSAAASSSFATAATA AAARSTAAPPAMAAAGARLSP GPGSGLRGRPRLCFHPGPPPLLP LLLLFLLLLPPPPLLAGATAAAS REPDSPCRLKTVTVSTLPALRES DIGWSGARAGAGAGTGAGAA AAAASPGSPGSAGTAAESRLLL FVRNELPGRIAVQDDLDNTELP FFTLEMSGTAADISLVHWRQQ WLENGTLYFHVSMSSSGQLAQ ATAPTLQEPSEIVEEQMHILHIS VMGGLIALLLLLLV
9577	39945	A	9637	2	398	SDARVDALNKIKIWERIKKHLE GHSTNLSLDIAKLKEQIFEASQA HLTLMPGTGVLEGAADRLSAS NPLKWIKTLGSSVISMIVLLIC VVCLCVVCRCRS*LLREVAHRD KAAFAFIALQIKEGEHVGNST
9578	39946	A	9638	201	495	WKKTLMPTGTGVLEGAAN/GLA AINPLKWIKTLGDSVISMIVLL IC/VCLCIVCRCRSRLLEVAHC DKATFAFIHSEKMWYFGFCFCN NSLRVIASSCIH
9579	39947	A	9639	3	409	GIYILHQKKTWEK\LLLAACAIV AIENPADVSVISSRKTGQKATPL FAAVTGATLVAGCFTPRTFSNQ ISAAFREPQLLVVTDPRADHQP LTEASYINLPTIALC\TDSPLHYV GLAIQCNNKGAHSGGLTCNLS
9580	39948	A	9640	3	438	
9581	39949	A	9641	288	489	SFRPLSVLGDCVVRGPTKPSGK CSPASRSLFVRRHILLHPQGLH NLDQNKATPPPQPL\GHQTCAC
9582	39950	C	9642	23	411	
9583	39951	A	9643	1	209	SPSTTAVCCPPRPSIDFHSSGSSR VSAALLIQ/QRFLPLWIGLKAR HCSCGLRQRQVSWQETEEEDGK AG

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9584	39952	A	9644	28	925	PEAGTRSWREPDPEDLRRFLLS AACRSFPQWLPGGGGGQVSSC SDTDVPYLLLA VKSEPGRFAER QAVRETRRKPTSGIRLLFLLGS PVGEAGPDLNSLVA WESRRYS DLLLWDFLDVFPNQTLEP/VL WLPGWAGPCPTGSFVLRAQDD AFVHTPALLAHLRALPPASARS LYLGEVFTQAMPLRKPGGPFY VPESFFEGGYPAYASGGGYVIA GRLAPWLLRAAARVAPPFED VYTGLCIRALGLVPQAHPGFLT AWPADRTADHCAFRNLLLVRP LGPQASIRLWKQLQDPRLQC
9585	39953	A	9645	1	1612	MIFVVIILMVVLSPEGGSGLDSS PFLSEANAERIVQTLCTVRGAA LKPYPTGPNFRYSHGVPPHLF AYFPPGSTVSQDNSFISPLQHI FERVRQSADFMPRWQMLRVLE EELGRDWQAKVASLEEVFAA ASIGQVHQGLLRDGTAVVKIQ YPGIAQSIQSDVQNLLAVLKMS AALPAGLFAEQSLQALQQELA WECDYRREAACAQNFRQLLAN DPFFRVPAVVKELCTTRVLGME LAGGVPLDQCQGLSQDLRNQIC FQLLTCLRELFEFRFMQTDPN WANFLYDASSHQVTLLDFGAS REFGTEFTDHYIEVVKAAADGD RDCVLQKSRDLKFLTGFETKAF SDAHVEAVMILGEPFATQGPYD FGSGETARRIQDLIPVLLRHRL VSP/PEGDLWPWHRKL\AGAF ACAHLRDHIACRDHKPGHLPPL LGQSPARRSHCRQPPHQRGTPG WIPHDSLHGGFSPQSRYPYAVV PLIPSPSALGQRSPLGLPSLAWL SSLAQELRIPGAGELPTSCPRSC TSPLESEVSEN
9586	39954	A	9646	930	1123	GVRRDGSSASVTVGQPCRDTSL AFETVAGPYLA*KT*TSGKPGS D*RASKVAGGVQNGTRTTAT
9587	39955	A	9647	719	1346	

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9588	39956	A	9648	1	823	MKKVLIAALIAGFSLSATAAETI RFATEASYPPFESIDANNQIVGF DVDLAQALCKEIDATCTFSNQA FDSLIPSLKFRRVEAVMAGMDI TPEREKQVLFTTPYYDNFALFV GQQGKYTSVDQLEGKKVGVQ NGPTHQKFIMDKHPEITYVSDE SYQNAKLADLQNGCAARAAPG SRRYGGWTIQASTARPSDVLLT ADSVSFAVRSRGAAATAYHRC CLSGVMVNAATACEHSTASQG RASRTVTDSDPHPRSVRRRAS FRRSGRGFCGTVR
9589	39957	A	9649	583	730	
9590	39958	C	9650	333	439	
9591	39959	A	9651	2	171	
9592	39960	A	9652	1	826	MGGLFWRSALRGLRCGPRAPG PSLLVRHGSGTIMGVFVAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRRLVGDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQDLRRKPFPPCPSR YMSSGPVVAMVWEGYNVVR SRAMIGHTDSVAEAAPG\TIKGV DFS\HISRNVIHASDS\VEGAQR EI\QLWF\QSSELVSWA\DIGGQH SSIHPGLRLRAALTTPSPTQDPT YPPLARTPSPTSKPALSPNPLTS PV SPLAPPQAQREF

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9593	39961	A	9653	144	1650	NCETTTKGSAILRNVDPLPL RRAGSSPGLMPVEEEMEIDEK QMKGFLDDSERMAFLVSLHLG AAERWFILQMEVGEPLSHENKS FLRRSQGIYDSLSEIDILSAVLC HPKQGQKSVRQYATDFLLAR HLSWSDAILRTRFLEGLSEAVT TKMGRIFLKVAGSLKELIDRSL YTECQLAEEKDSPGNSSQVLPT ACKRNNEEAMGNELSSQQQTE EHQHVSRCYLLKEHGDPEG LHDHLGQSTGHHQKAHTNNVA ATKKVVQQLQLEAGLSVKVS QAATEPQTIISPINALQEPSGIE WEQFPKAQIPSEPQENLCPFVST MNSIKGLHEDYQGNAGKVLST VPGRRYALQNLGTAIVQGEER KQSSLCPGEEKRHELRSKSHS LVMKHAMVLFNVGFETKDQIH LPTRLGMAEVETLCIYAKQLPH KLIAKLRLLKGTRPLSLNNEHIL THPGLEGWLHTEFFRILSINNKY HLSAYLVQSIVLHVMGFHRKT
9594	39962	A	9654	8	440	VFERSTPPTLETVRSKQEWETR LNGVRIMKKNVDRDQFNHIQL VRNGAKLSSLPQIPTPLPPPSE TSCFRFCFNPVPLWLLGCPSPG RQTGEDPGEAADPVPTVQ*GPD DQHSSADQDSTYHHGRPDHGG TYPVGCCTTGRT
9595	39963	C	9655	89	389	
9596	39964	A	9656	1	184	
9597	39965	B	9657	1	942	
9598	39966	A	9658	424	614	NDGPDWGGRRRETVDNRKRGF KISKTLYLYSDIYSCHVHFYIG NVCIESLYSNVRK*NYVYY
9599	39967	A	9659	1	717	
9600	39968	A	9660	103	374	
9601	39969	A	9661	1590	2051	SYPVSEERSQAEQSSNPYSHFT STPIRDRLHASGVSTQSLGSSD ALLHWAGHNAHGVAQCRSPLL VFPNPEPCFPAPAFLTPSWLP WQK*PWLGFPCQPPRSTHAPCR LHPTSP\GLGGVKASAETPRPQP VD/ETGEDPGEAADPVPTVQ

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9602	39970	A	9662	1	2912	MAQALPWLLLWMGAGVLP AHGTQHGIRLPLRSGLGGA PLGLRLPRETDEEPEEPGR RRGSFVEMVDNLRGKSGQ GYYVEMTVGSPPQTLN ILVDTGSSNFVGAAPHP FLHRYYQRQLSSTYRDL RKGVYVPYTQGWEGELGT DLVSIPHGPNVTVRANIA AITESDKFFINGSNWEG ILGLAYAEIARPDSDL EPFFDSL VKQTHV PNLFSLQLCGAGFPLN QSEVLASVGGSMIIGGI DHSLYTGSLWYTP
9603	39971	A	9663	1	902	MSAKEKKGKPFENMAKADK VHYVREMPTYIPPKQETKK KFKDPNAPKRPPFS/SEY CPKIKG\EHPGQSTGDV AKKLGE MRTNSAADDK WPYEKKA AKLKEKYRKDT AVYRAKGKPDAAKKGDV KAEKSKKRKNEKDEE DEEEDDEEEDDDNE YADNECTGFSGFVYKT FNSPVHNSLFLNVEI HALGFDELLESIFCILL VVEVFS LQKGVAMLE EVVVNGERSGRSLP WLPAAPSLPVPVPLGL RHPQSQSDNHS LQLTFLTALRLLR PRLGAVLEETV EDGRTKTNLPDENS VPFSPET
9604	39972	A	9664	146	733	LNMKGKDPKKPRGKMSS YAFFVQTCREEHKKK HPPDASVNFSEFSK KCSERWKTMSAKEK GKFEDMAKADKARYER EMKTYIPPKGED/TK KKFKDPN\APKRPP SAFFLFCSEY/RAPK IKGEHPG\LSIG\DV AEETGEEMW\NNTA ADDKQPYEKKA AKL KEKYEKDIAAYRA KKGKPDAAKKGVV KAEKRSTRPRIPDL
9605	39973	A	9665	30	359	
9606	39974	C	9666	418	555	
9607	39975	B	9667	550	1717	
9608	39976	B	9668	1	1705	
9609	39977	B	9669	328	484	

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9610	39978	A	9670	5	1215	IIVLPKMSMPVVSAQLTITSIPP WAVE/WGNVTL SVQGIPQNLIS YNWLRGATTNQVTRILNFNFFS HGYTLGPAHTGRETGRADGSLI IIDVRASDNGIYTLHLISSGE\KV AIMLCYLSLLVAPWHFHKTPR WRFPWGPRAASQRASCSQPQS WSSGCSK/VSQAALYIQKIQEP QKNQDLLLSVQGV PDTFQDFN WYLGEETYGGTRLFTYIPGIQR PQRDGSAMGQRDIVGFPNGSM LLRRAQPTDSGTYQVAITINSE WTMKAKTEVQVAEKNKELPST HLPTNAGILAATIIGSLAAGALL ISCIAYLLVTRNWRGQSHRMAT TEKPELGPAHDAGDNNIYEV PSPVLLVSPISDTRSINPARPLPT PPHLQAEPENHQYQQDLLNPDP APYCQLVPTS
9611	39979	A	9671	1	558	EGGLRTPSNPYHVDISQTKPCH *TNHC IQKEYSKNYGKYEEGNE MFFKEFNQYLTSALNITLESSIL LQIKHIIRNCLLSVEPAISTKHLP \YQSFQLFGDFM VDEELKVWL IEVNGAPACAQ*ACTSLCFYKW EVGSAVGIVCGYKCSHFDCCEG GCHSDRRPLGGLYLAGGFAESL PFLFPRV
9612	39980	A	9672	1	534	MVGVDVTFKVISREERQTQRL GSSSPKRCPLEQEFEHEYSSFFG RNCLLSVEPAISTKHLPYQSFQL FGDFM VDEELKVWLIEVNGA PACAQSPAKSL/CATSSSLFLSPP PWTCQQHSRQPTALAE LLSCH GWTRGAGQACLWAFVLSVTC VWNPHHHYHHHHQPYRGWLL LYQNIL
9613	39981	A	9673	624	805	SGGHPGHWLPNPMASPGATT PVGEG/ELQYASLSFQMVKPWD SRGQEATDTECSEIKIHR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9614	39982	A	9674	1	1005	MENRRKVKGEWIAVPQPVKEL RGVLNAATTLSKTRILRGKCF QLTSPTGNEPSHLSWTPRKRSR DGHPGCPDPLAASGARPLRSSS AFAAAAADSGSTVQVWDKGV LRVADVWSTIEPVTHVNLGWA AKVGPIISHGSAVISAFSKEGMF RIFSERKTLLAKLRDFQNTQLR KLFSEMEKAAGRSQSGVSFGQ KGLGDRACEEMSENPKGRKK PKAPQEVSFRENGNWKTP\SIFF SPKTTPRKKKSFS\KEELMS\SDL EETRWQAPSIKPKKKSTPKEET VNDPLEVAGHK\SGSKKKRKFS K\EEPV\SSGPEEAAGKSSSKKK KKFHKASQED
9615	39983	A	9675	1	2742	
9616	39984	A	9676	1	405	MADIPQEARQYRHKQAYAYSI QGEGVEDDDERIVRFHTRWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGR/VLKDSDFDAN DPILKDQTQEWGSGATFTGSVF LAFGCYSK
9617	39985	A	9677	3	642	GKGLFDDDEESDLFMEAPQD RQAGASVKESSSSKPGKKIPA GAVSVFLGDTDFGAASVPSLK EPQKPEQTPRKSPYGPPTGLF FFSAPHSPSKTRKVQSTADIFG DEEGDLFKEKAVASPEATVSQT DENKARAEKKVTLSSKLNLP SSETK\TQKGLFSDEEDSEDLS SQSASNLKGASLLPGKLPTSVS WFDDEDEEDNLLGVQ
9618	39986	B	9678	175	1422	
9619	39987	A	9679	1	3096	MVTHQQPAARKPNMTSKKPKP MGPKAHGIFSGTRKNNLEIYMD QTRTGIAKTKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGSY NSDTDEDEETEPSSSGQQIENSI TMNMKMLLKAKMKNMNLSSK HITQVSDEEEDDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGDVGRVDEEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLAPSGEAKLRKTL/ KEKKERRTPSDDE
9620	39988	A	9680	1	2925	
9621	39989	A	9681	2	688	
9622	39990	A	9682	1	1005	
9623	39991	B	9683	1	588	

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9624	39992	A	9684	1	2763	
9625	39993	A	9685	2	1075	NSDEELLFSHKLQKDNDPDVDL FAGTKKTKLLEPSVGSFSGDDE DDDLFSSAKSQPLVQEKKRVV KKDHSVDSFKNQKHPESIQGSK EKGIWKPETPQ\AHQVSLHLKP NEPSTRIGKIQANLAINPAALLP TVAASQIS\EVKPVLP\ELAF\PSS EHRRSHGL\ESVPVLP\GSGEAG VSFDLPAQADTLHSANKSRVK MRGKRRPQTRAARRLAAQESS EAEDMSVPRGP\IAQWADGAISP NGH*PQLRAASGEDSTEEALA AAAAPWEGGPVPGVDTSPFAK SLGHSRGEADLYDSGDIFSRAP GSQ/SVERPNPRQSRDLPPPGW KQRPRSGKQPRKRSP*QPKHP LPKGR\TSSPW
9626	39994	A	9686	1	4086	VTPRAAWLGLGFRGSAVLGLC WQPRSPPSRAAGMMNR\TTPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQFLQEFSQQ TISR\THEIKKQVDGLIRETKATD CRLHNVFNDFLMLSNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEAVNYG LQVLDSAFEQLDIKAGNSDSEE DDANGRVELILEPKDLYIDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
9627	39995	A	9687	1930	5781	RAKSPANIIMTGSNSHITILTN VNGLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKV\NKDTQ ELNSALHQADLIDIYRTLHPKST EY\TFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
9628	39996	A	9688	1	3654	
9629	39997	A	9689	1	5127	
9630	39998	A	9690	1	3663	

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9631	39999	A	9691	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
9632	40000	A	9692	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAEELKEIETQKTLQKINESR SWFFERINKTDRPLARLIKKKR EKNQIDTIKNDK
9633	40001	A	9693	1	3235	
9634	40002	B	9694	1	3300	

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9635	40003	A	9695	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVEESLNRPIGTAEI GAIINSLPTKKSPGPDGFTAEFY QRYKEELVPFLKLFQSIKEEI LPNSFYEASIILIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQQPFMLKTL NKLGDGTGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSQY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIIKKSNN
9636	40004	B	9696	1	3420	
9637	40005	A	9697	1	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAPIKAQV SSTEKLRLNCIDDLKFPALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYPIDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSEDQGPTREVI AQLLEDALQVESQEPEQAFV KPHLVSEYDIYGFRTVPEDDEE EKLVAKVRALDLK
9638	40006	A	9698	1	4371	

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9639	40007	A	9699	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSLDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYHNLWDTFKAVCRGK FIPLNAHKKRQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPGM QGWFNIRKSINVIQHINRAKDK NHMIISIDA EKAFDKIQPFMLK TLNKL\GIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWKNI CSWVGRINIVKMAILPKNILITL QLLLVLPELSTLIPLWLPALAGQ
9640	40008	A	9700	1	4449	
9641	40009	A	9701	824	3693	AWKGTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNNLLL NDYWVHNEMNAEIKMFFETNE NKDTTYQNLWDFAKAVCRGK FIALNAHKKRQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
9642	40010	B	9702	1	2858	
9643	40011	A	9703	1	3354	
9644	40012	B	9704	288	3301	
9645	40013	A	9705	1	3457	
9646	40014	A	9706	1	4794	
9647	40015	B	9707	1	3384	
9648	40016	A	9708	1	3345	
9649	40017	A	9709	1	3780	
9650	40018	A	9710	1	3720	
9651	40019	A	9711	1	3894	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9652	40020	A	9712	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKETQ
9653	40021	A	9713	1	3780	
9654	40022	B	9714	1	3855	
9655	40023	A	9715	1	3345	
9656	40024	A	9716	965	4362	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTTFFSAPHHTYSKI DHIVGSKALLSKCERTEIITNYL SDHSAMKLELRIKNLTQNCSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTNQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLELEKQEQTTHSKA SRRQEITKIRAELEKETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREKNQIDT
9657	40025	A	9717	1	3921	
9658	40026	A	9718	1	3988	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKNLTQS RSTTWKLNLL
9659	40027	A	9719	32	583	GPHGAFTHGRR/RFGRPYEGP RRTGKRKQKSARGCIVDANLSI LNLVIVKKGEKDIPGLTDMVP CHLGPKRASRICKLFLSEDDDD VHQCVRKALNKEGKKPRTKA PTTKYLVTPHVLQHEWWHIAL KKQRIKENKEVAAEYAKLLAK RMKEAKEKHQEQUIAKRRRLSSL RASTSKSESSQK
9660	40028	A	9720	318	605	

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9661	40029	A	9721	1	649	MGLKGQGVEGGLLRQSGSVSL QPLSREDLGRSQSESLGPEFQGL WEWLPVERVERENLSDYCVLG QRPMHLPNMNQLASLGKTNEQ SPHSQIHSTPIRNQVPALQPIM SPGLLSPQLSPQLVRQQIAMAH LINQQIA/S*PAPGSPASSSHQPA VPEPS/IPSPEQLSQSQPTLPWKS LQISTSKSEMS*RGPVCPKLSLQ EWHSTAHRNLKTWKKD
9662	40030	A	9722	15	272	KPQWP GIPSGPPPGSFCFK*KS GHWAKECLQPRIPPKPCPICAGP HWKSDCSTH LAATPRAPGT LA QGSLTDSFPDLLGLAAEG
9663	40031	A	9723	96	531	VQPADLLRPLHTDTCNIWCQRP GTEGLLRETGPLSS/PLTP/MRRS TYDLRSSDQPK EHLTDFKSGSC FKCRKSGHWTK ECQQPRIPPKP CPICAGPHWKS DCPSCPAATPR APGT LAQDSLTD SFPTDPKGS LI DYFPDLLCLVAED
9664	40032	A	9724	3	567	GRLQTGADPAWRVHGTWRSTS AAD AIDQMWPVPMRTWRLNE RHYGGLTDLGKAETA AAKHGEA QVKIWSNISKDRRYADLTDDQL SSCESLKDTIASALPFWNKEIVP QIKEGKWVLIAAHGNSLRGIVK HLEGLSEEAIMELNLLTGPIVC KLDKSSKPIRCMEFLGDEGTLC KAMEAVAAQ GKAKK
9665	40033	A	9725	2	801	GGVPHQP AAMAAYKLVLIRH GESAWNLENRFSGWYDADLSP AGHEEAKRGGQALRDAGYEFD ICFTSVHLY\AIRT LWTVLEMP\A SEMWLPVVRTWRLNERHYGG LTGLNKAETA AAKNGEAQVKIW RRSYDVPPPPMEPDHPFYSNISK DRRYADLTEDQLPSCDRLKDTI ATALPFWN EEIVPQIKEGKRVLI AAHGNSLRGIVKHLEGLSEEAI MEL\NLPTGIPIVYELDKNLKPI KPMQFLGDEETVRKAMEAVAA Q GKAKK

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9666	40034	A	9726	3	573	VAPVVQVWKEMHKLLPFSPDS V\VTHGDISIDSGIFDQDKLIGRI DVGRVGIACGCQDVAIVWNYL AACSVDRNTCRIMRPNCRPEVE ETPGLKEEKELSQPKEGEATDL KKEVEKISSSEEEETVNLKEEVE KIPPPEEETMDLKEEKKEIPPEL RDQKLMHVLKDLEPVSAVPHK DSLFGQLTTPV
9667	40035	A	9727	2	685	TLYCRVFLLDGTVEVSVDLPKHA KGQDLFDQIVYHLDLVETDYF GLQFLDSAQVAHWLDHAKPIK KQMKIGPAYALHFRVKYYSSEP NNLREEFTRPKITKMDFKKSKL TLVVVEDDDQGREQEHTFVFR LDSARTCKHLWKCAVEHHAFF RLRTPGNSKSNRSDFIRLGSRFR FSCFS/ERENAHSTGNPALRER PGDGSVSREGRWVDEGWQRP GGRGQNALCSVP
9668	40036	A	9728	1	419	MSKFRATRGLRKPEVGDVIRT IVRAGLAMPGPPLGVLGQRRRA SINQFCKEFNERTKDIKEGIPLL TKIFLKP DGTFEIKIGQPTVSYF VKAAAGIEKGARPT/DLSSEFA AFQKEQAIFLAAQKKADLATQ EEAAKK
9669	40037	A	9729	97	826	SQLPRIMSKLGRAARGLRKPEV GGVIRAIVRAGLAMPGPPLGN VLGQRGVSINQFCKEFNERTKD IKE\GIPLPTKIL\VKPD\RTFEIKI GQPTVSYFLKAAAGIEKGARQ TGKEVAGLVTLKHVYEIARIKA SGLRAFALQDVPLSSV\VRSIIGS ARSLGTSRGERTSSSEELAAFQ KERAIFLAAQK\EADFGLPKKE AAKEIDPLPHQLPDFQKEVSLQ KLCPRGGRRSHQYDDGFHDFE
9670	40038	B	9730	273	418	

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9671	40039	A	9731	69	1565	RRRRFQASGAAAMLSSRAEAA MTAADRAIQRFRLRTGAAVRYK VMKNWGVIGGIAAALAAGIYV IWGPITERKKRRKGLVPLVNL GNTCFMNSLLQGLSACPAFIRW LEEFTSQYSRDQKEPPSHQYLS LTLHLLKALSCQEVTDDDEVLD ASCLLDVLRMYRWQISSFEEQP HFQDGLVQLRVGVVCRHYPEK WEAASWTSQNCGADDAHELF HVITSSLEDERDRQPRVTHLFD VHSLEGHPLTLDHCLHHFATQSE SVRDVVCNCTKIEAKGTLNG EKVEHQRTTFVKQLKLGKLPQ CLCIHLQRLSMVQPGTPLKRHE HVQFNEFLMMDIYKYHLLGHK PSQHNPKNKNPGPTLE/HAGW AGSPHTSSESARGPQNTDFYEW RLLPIFIANAVSADALPSPSCSR LQLLHIPLPADGQLSSTMGDMA LWDTLFIYRRSPPSARNPLSTSN QWLWVSDDTVRKASLQEVLS SAYLLFYERVLSRMQHQSQEC
9672	40040	A	9732	1	1393	PLQLQPRHIGAQIQGLPLLQRV QAIRLGSFHMVLSLW/VMQSAR VEILEPPPRQLQRMYGKAWRISL CPQGLSTVMRSEL TASSTPQVQ EILPPQSPEYLGPKGITERIHKIM HVKGLAKLPANRNQPSPGVSG KRLVNCVSASA VDSEPAAVPEP DVCAGIVIKKQCFPIARCNT KQVDSIPHRAAYAKSPFFPAVV VVTSESKDPRVKQNPHTPLLA GSNAAHFHKTKISQSLKWLPVG YLNSTTYEYRDLTKGLSLLCSL LLGVEADIPSMAGLHVRHLMQ VPQQPCIAFAVSSPLHQGGKET EDAWSFHIPSTIHRWPTSPSVQL SSLRASTQLLCLHINLAKCFIWG ILAQVLSCHHHRITQFVGM LTF VCAGDSSKLSPDITLVRRLTS YLVASVLLKSKQMALCSASRI LDVSVSPGDHVASEARARCAP DLVAPRPMPHQNQGSLEWTEE
9673	40041	A	9733	44	282	FSLCILHDAFPCLILHDAFP CSL CSVTGSLVLSRVPLRGTHQKSA IATSTKIALSNM/KILKHHTDAY FKKQQLFFDVSKK

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9674	40042	A	9734	3	381	EQQGQR/SQWWRGAAARVSRTV KRVLCV/VVECPLKSACPDVDM YWAALQRLASLLKADGNLVT MAALHSHYMGVSGSKFFGLHPE KETVEKAMQEAGCQVQRCA/SI SCSETCSINDGICFVAACKGPSV
9675	40043	A	9735	2	209	CRHSTQHCVS/HHGHSQYK/DS HQHYSHYHHHNHPHHHHQSPY LHHHHYDCHLHHHHHNDHYH RHISVYDI
9676	40044	A	9736	197	3348	RVVQTDMIKGMLETSLKISLD QAFIRICLNSTCFRPGKGLVIK/C EKSINSASLVSTSQRISCRPKTHI SKNYGNNFLNSSLLTQKQEVH MREKSFQCNESGKAFNYSSVLR KHQIIHLGAKQYKCDVCGKVF NQKRYLACHRRCHTGKKPYKC NDCGKTFSQELTLTCHHRLHTG EKHYKCSECGKTFSRNSALVIH KAIHTGEKSYKCNECGKTFSQT SYLVYHRRRLHTGEKPYKCEEC DKAFSFKSNLERH

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9677	40045	A	9737	1	1665	MAGACWLMAFQYWVLKLLVV KSA/SWPRQSSLKWNWNFKGC QDLETWGGKETRKIFYGYRRNE EAQKYSCRIPKPD*WCHCWQ W**WLMAFQYWVLKLLVVK AYGLVKALSNGIGISKVAKTW KPGGKKRLENFMAIEEMKKHR STHVGFENLTNGATAGNGDD GLIPRKSRTPEQQFPDTENEE YHRDFSKLCLGSAANGVVHVE VKMCVYNGKGERQEEKMKGLI SMNLVVEEMKKHESNNVGLL ENLTNGVTAGNGDNGLIPQRKS RTPENQQFPDNESEEYHSLGDK SKTSFQNSNNNNNKQQEQQQQ NPTFSNTRKLTCLYKAPIPPSIL SGCPNINDSNWQIEHGMQTA GLPTRPLSHGLQQKGAAFRCLG CKCSEPFTGSLILQKAKTNTQK WQATYPKSQNEQLVPSVGKSY RCSTPAQPMKTAVGHKPKCAT GAELPKALGAQPLHPCALDVG QGFKKGNFGAVGLNGLLGLF HGVSGVLLVPGDGGGLISEGVV REDLMCGVWSAGTWSVGTA RCLEKPGALHVIEGPLDSWDGP VMPNGPVKSRQSSCLDGPGR CSEILTGQSHGNKKPARASSKS SQSINDRPLAVLTNQYQCEQLA SERQPSSNSCSIRIDSA
9678	40046	A	9738	1	115	RRTARGPQQTSTDGLGTSPCRN ASEHTADILELSTLIV*RRQ*ICL CLDFLYY/LIPEGRCFCRACDLV HNFADTIIHQHRTLTSQGVDDF LKAKATFKASDFIDALVLSKVA SPRILIQGGRMGA*DQVSDQAS VYGRCSSSGAEAAKRPKSAWL LLGYDSRASGLY*ILYNLTKHP D/YRECCQPMQES*S*RRTAR GPQQTSTDGLGTSPCRNASEHT ADILELSTLIV
9679	40047	A	9739	1	506	MVIVGLAAGVLLVPGDGGGLIS EGVVREDLMCGVWSAGTWSV GTAERCLEKPGALHVIEGPLDS WDGPVMPNGPVKNHKGEQQE VPSKHPQMALEICLCLDFLYY/L IPEGRCFCRACDLVHNFADTIIHQ QHRTLTSQGVDDFLKAKATFK ASDFIDALVLSKVASPGS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9680	40048	A	9740	1	380	KFSRPSVNMLRIVKPCITRG/YP NLKSVNKLIIYKHGRGKINKKRI ALTDNTLIDQSHGQYGIICIEDLI HELYLWPFKLSSPQSGMKKKKT THFVENGAAANREGQIHRLIR MNCGVYRDYFSNLVS
9681	40049	A	9741	3	279	
9682	40050	B	9742	23	197	
9683	40051	A	9743	2	402	CGDRGALRPPSCAGRSGPGPPR PPRPPRPLPWHAPPAGAPLA RPGARARRSEKPPSEKPRLLRSS PRAQEEGPGEPPPELALLPPPP PPPPTPA\PRRPRP\PGPGAAG ALGDVPEAAEAYLERVPPSSC
9684	40052	A	9744	1	660	
9685	40053	A	9745	1	1035	
9686	40054	A	9746	1	2575	MRAAGGAMLCGKQGRWDPEG EGAHPGFIPKLACSSQGVRQL HLRTAVTAAVSRHFPQPSWRY DPGPQFLGEKSGFKPRCPGVAV CQFQSMNAFIHWFRNKAWASS CDRIKIPVPEATFVEPNCLPGEI GQLLRQLQSGRNLKEWLREQF CDHPLEHCEDTRLHDAAYVGD LQTLRSLLQEESYRSRINEKSV WCCGWLPCTPLRIAATAGHGS CVDFLIRKGAEVDLVDVKGQT ALYVAVVNGHLESTQILLEAGA DPNGSRHHRSTPVYHASRVGR ADILKALIRPAACDRSVSITADT HFRYLIKVVPAMFRSRKAIPFLS SCTAWRCADELQFIQPVPLVDT SGSGKTVSNVITESHNSDNEED DQFVVEAAPQLSEMSEIEMVTA VELEEEKHGGLVKKILETKKD YEKLQQSPKPGEKPSATGWHG ECLGTRNRAQGALVGWGWLY SERHSGMLRAITLKYKGGGRQ GIQA/AWKSETFRSRAAPENPL GRWGFALLSKIIS*RQVL\KLHF SLSPQARVNSRFPGSGKAGLGL WMEGARPSGHVPKERVVAGK RPQVPTKAHHTCVRETAGNQE GNNEGALQQEQRLGVAEAGSN GEGALQQEHRITDCAVEPLKAE LAELEQLIKDQQDKICAVKANI LKNEEKIQKMERSLFESA WKKE KDIVSKEIEKLRTSIQTLCKSAL

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9687	40055	A	9747	2	1739	MKGLYTDAEMKSDNVKDKDA KISFLQKAIDVVVMVSGEPLLA KPARIVAGHEPERTNELLQIGK CCLNKLSSDDAVRRVLAGEKG EVKGRASLTSRSQELDNKNVRE EESRVHKNTEDRGDAEIKERST SRDRKQKEELKEDRKPREKDK DKEKAKENGGNRHREGERERA KARARPDNERQKDRGNRERDR DSERKKETERKSEGGKEKERLR DRDRERDRDKGKDRDRRRVKV GEHSWDLREKNREHDKPEKK SASSGEMSKKLSDGTFKDSKAE TETEISTRASKSLTTKTSKRRSK NSVEGDSTSDAEGDAGPAGQD KSE\VPETPEIPNELSSNIRRI GSARPAPPRVKRQDSMEALQM DRSGSGKTVSNVITESHNSDNE EDDQFVVEAAPQLSEMSEIMV TAVELEEEKHGGLVKKILETK KDYEKLQQSPKPGEKERSLFES AWKKEKDIVSKEIEKLRTSIQTL CKSALPLGKIMDYIQEDVDAM QNELQM\YHSENROHAEALQQ EQRITDCAVEPLKAELAELEQ LIKDAQQDKICAVKANILKNEE KIQKMVYSINLTSRR
9688	40056	A	9748	93	800	RANLPTQPYCHCLAPAALTRI VGGSAAAGRGWVWQVDLWLR RREHRCGAVLVAERWLLSAAH CFDVYGDPA/QWAAFLGT/HVP ERRGGAVERVARIYKHPFYNL YT/FDYDVALLELAGPVRR/SL VRPICLPEPA/HATPDGTRCVIT GWG/YGS/TGAQLQKAAVRLLS EQTCTRA/LYPVQISSRMLCAGF/ LQGGVDSCSGDAGGPLACREPS GAPVPGQPRTCTAPARWPRRSA LSPAPL
9689	40057	A	9749	107	378	NLVP*LRSGD/SPLGDQSPVLLIF TP*ERSTYNLKSSD*PAQETS/PP ISNPDPDEN/PDCSTHLAATPRA PGTLAQGSLTDSFPDLLSLAAE D
9690	40058	A	9750	2	286	

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9691	40059	A	9751	215	631	GTQSCNQKVLNSANNLQELGIG PKFQMRLKPQLAPMQPNRGTS LGRSIPCPPVLCMSMRKIHLRPQV LRPTSPRNISPILNRVSEVSDHA GTPALVLHP*RQVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP
9692	40060	B	9752	1	933	
9693	40061	A	9753	1	2283	MLPNRLGSSETITDAELRVTLT VEELNGLRAVQDMFVKQILKA ARSLRVITIPNLKYPGTQTLRKA AAPDPNTTGLIFLEKLCEIAAAI ASYVAVPSLEINHRRKANPNLL LRRSGSGSVSLQLLAEKIWEGV REPWARVLVLWEWLPDQNPLS GLTKSNSTSRHELPHGRAIQLH LSGWELWSEPSNLLDLVVTGDI ENTSLAPEDPTFLTMPSGSHCPE SPSDGPGLSSLVALVWFLVED WLSRKRLESEPAELPLGKAGEV VFDTLPLPSRRTHFSGLGHFCY SFSDBGYSTNRAAPDGSSTKA EK HGSCRKQPPYTLQCRDKAGLR VHGNSPVSAYGWLFSEERPGKP TRTPFSWEGDPPGLLTADETS VVHLELPVFPSFLKRAGNSRHS GMGSPLEAEEAYSTVVMADV QYPVNEPLVAAVVCQEPERAQ PDVHFFQ/CLRLGGHAGGVAAR PLPAAETPPLQRRPSVRA*SAP* SGARAADDPRTTHS/QAEEAQR PEPDILNHVFDDVESF/VSRLQK SAEAARVLEHR/KRGRRSRRRA AGEGLLTLR/AKPPSEAEYTDV LQKIK/HAFSLLARLRGNIADPS/ SSELLHFLFGPLQMIV/QPSGGP EFASSVRRPHLT/RDAVALLRD NVTRE/RRLWTSLGDSWTRPG LELSPEEGPPY/IPEFFSGWEPPV TDPQSAPGRTQLRNSYSTSGGA
9694	40062	B	9754	1	930	
9695	40063	A	9755	76	247	QLKTDTAQLPRKLFVESHNYH CSWPGLQSGLPHYSGYHTSSS* LYLSDPADIHPIPS
9696	40064	C	9756	95	301	
9697	40065	A	9757	352	545	DILNHVFDDVESFVSRLQKSAE RPGCWRRRTRPQKPAGVAG* RGTWRGI*TPPDFQMSPLSP
9698	40066	B	9758	406	602	
9699	40067	A	9759	1	543	

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9700	40068	A	9760	2	138	LDDFVGRMLTLMGCPPEC/PRVPSPLREGRKTQAALSVRRGRSHRR
9701	40069	A	9761	1	417	
9702	40070	A	9762	830	1029	YLPHLRLRLPCPPPLPLSKPNSLP*LRPSLLQRDYLISIFILINMPSISSTTMLLYGQKEISSLH
9703	40071	B	9763	40	980	
9704	40072	C	9764	419	700	
9705	40073	A	9765	271	1185	
9706	40074	A	9766	2	1655	RGRRSRRRAAGEGLLTLRAKPPSEAAYTDVLQKIKYAFSLLARLRGNIADPSSPELLHFLFGPLQMI VNTSGGPEFASSVRRP\LVTSDAVALL\GNNVTPRENELWTSLGDSWTR/LRA/EELSP EEGPPYRPEFFSGWEPPVTD PQSRAWEDPV EKQLQHERRRRQQSAPSGRCQWVTGDLEPESE PQLESETAGKWVLCNYDFQA\RNSSEAVRSSSGDVL\EVLA\DDSR\KWWKVRDPAGQEGYVPYNILTPYPGPRLHHSQSPARSH\DSTPPPPAPAP/VP/LPPALARPRWDRPRWDSCDSL NGLDPSEKEKFSQMLIVNEELQARLAQGRSGPSRAVPGPRAPEPQLSPGSDASEVRAWLQAKGFSSGTVDALGVLTGAQLFSLQKEELRAVSPEGGARVYSPVTVQRSL LEDKRES\SELEAVMEKQKEEGRRGGNGGHLTCQAPFAKSDEAPWENGPPQTLPNSGSRSEGW PICSGLPLPLPVDRLNDPCCSPSGEDLDWLGVGRAWRQSTESASRPPRGCSGALSIVILRPSPINMPPCLAKKKKK
9707	40075	C	9767	565	762	
9708	40076	A	9768	1	401	SPLRPLLLALALASEPCAQGACPASADLKHS DGTRTCAKLYD\CSDPYYENCCGGAELSLESGADLPYLPSNWANTASSLVVAPRCELTVWSRQKGAGKTHKFSAGTYP RLEEYRRGILGDWSNAISALYCRCS

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9709	40077	A	9769	1	1489	MPQLLQNINGIIEAFRRYARTEG NCTALTRGELKRLLLEQEFADVI VKPHDPATVDEVLRLLDEDHT GTVEFKEFLVLVFKVAQACFKT LSESAEGACGSQESGSLHSGAS QELGEGQRSGETEVGRAGKGQH YEGSSHRQSQQGSRGQNRPGV QTQGGATGSAWVSSYDRQAES QSQERISPQIQLSGQTEQTQKAG EGKRNTTTEMRPERQPQTREQ DRAHQTGETVTGSGTQTQAGA TQTVEQDSSHQTGRTSKQTQEA TNDQNRGTETHGQGRSQTSA VTGGHAQIQAGTHTQTPTQTVE QDSSHQTGSTSTQTQESTNGQN RGTEIHGQGRSQTSAVTGGHT QIQAGSHTETVEQDRSQT VSHG GAREQGQTQTQPGSGQRWMQ VSNPEAGETVPGGQAQTGASTE SGRQEWSSSTHPRRCVTEGQGD RQPTVVGEEWVDDHSRET VILR LDQGNLHTSVSSAQQGQDAAQS EEKRGITARELYSYLRSTKP
9710	40078	A	9770	2	3031	
9711	40079	A	9771	6288	6584	TAVSLPAPLFSDLQIPPRKRSLK ETVMAPENLTN*RAPPQSSARV FQ*EALYVPGP*ALDPPEVCSSY SSVCGLHQLSHSSSESSSTLGSL LGSFQML
9712	40080	A	9772	884	1032	ESRPNTTTLRLKTSSWSFQS*TA TQTKGPRDPGASMTKPGATSER SASG

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9713	40081	A	9773	1	1457	RSAQKEKTAAKEQQGEKTEVL SSDDDAPDSPVILEIPSLPPSTPP STPTYKKSLRLSSDQIRRLNLQE GANDVVFSTTQYQGTCTCRCKA TIYLVKWDDKVVISDIDGTITK S\DALGHILPQLGKDWTHQGITS LYHKIQLGQLVMPLDARPERP MDGMKVRAFMERLLFVRRGT DKRWSVRMYVTCSQSSNLNEE IYINQVVIQANMKLQLWAMRT DDARGLSSLGDTSPSPCVSVVP GLQPKPAPVCAGDALLQAQIPG VLLGTLFSGAAFYSGLYGGSEQ FLDHLHPARAAPPPPLVGPGP APRVPGSPSAPELAGPAVWRFA AAASRGVVVAASGWGRGGEA SQTFTGTGKEPGGTRHPTRMPLG STGCIFPGTLEKSQGYERYNAM RADPALCFLEKVGMPDEKSLSA EQGVTDTGTS DIPERARQNEEQL TSFGLLWPTPQGSTDHIDNHPR ERYPEMRWELDVPLPDIDYMEI PVDWWDA
9714	40082	A	9774	3	4804	KRLNIQKTLEVAFSEAVWMQ PSVLLDDLDLIAGLPAVPEHE HSPDAVQSQRALAHALNDMIKE FISMGS LVALIATSQSQQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLD CDINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
9715	40083	A	9775	1	897	
9716	40084	A	9776	486	800	CLQLSWLSLGGAAQVHWLGRA VHTAF CMD*VLLFGESFGFLVR LTPGILLG LL*P*KQGHCHSVSL GEVRI/CGIIS*TFITSWAFSVLQ GKASAPVKVSTQNSRY
9717	40085	C	9777	332	497	

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9718	40086	A	9778	1	6504	MWGS DRLAGAGGGGA AVTVA FTNARD CFLHLPRRLVAQLHLL QNQAIEVV WSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAIFPVWVDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFS FQSEKKQETSWG LTEINAFKNMQSKV VPL
9719	40087	A	9779	1	5421	
9720	40088	B	9780	124	273	
9721	40089	A	9781	84	493	IHANNCS*L*KAALNFVLLLLQ KRL*GEKHLTLSETGREGNKVG GVGS*VTGTGQETELGSLGRCH SPLSVLHLLPFFS/ILLGRTHLNA LLIRDYFASSCKYL*EVLLSLSD GSG*NLMSVWMAGNSSAEYVR
9722	40090	A	9782	1	5954	MDGMTEACIKGGIEACYAAVS CVCTLLGALDELSQGKGLSEGQ VQLLLLRLLEELKDGA EWSRDS MEINEADFRWQRRVLSSEHTP WESGNERSLDISISVTTDTGQTT LEGELGQTT PEDHSGNHKNSLK SPAIEGKETLSKVLETEAVDQP DVVQRSHTVPYPDITNFLSVDC RTRSYGSRYSES NFSVDDQDLS RTEFVDS CDQYSMAAEKDSGRS DVSDIGSDNCSLADEEQTPRDC LGHRS LRTAALS
9723	40091	A	9783	1	2217	
9724	40092	A	9784	1	1360	
9725	40093	A	9785	1	777	MNIKNPIAAQHLDNLPIVKASSI GMTWGLVRNGVSAPTQKSCIRI HILARCTGAVAFEKLYFKSPAN QAHARKVGKQVQDCYIGRDIV AKAGAIHILNVGKGTPVCCPLL EEGINSEVWTT EGQYGRAK\NA RPVQVKLKDSTSFPYQRQYPLR PKA/LTKGFQKIVKDLKAQGLV KPCSNPCSTPILGVQKPNRQWRI EALKLQIVLQMEPQM QSMTKI YHGPLGRPASPCSDVNDIEGNP TKEISTAPLLCPNSAGSS
9726	40094	A	9786	1	415	

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9727	40095	A	9787	1	451	MVHFISRLLYSDGLDVPDPIQ DSDDAALSVSPHCSPDSRVSTT KHLWVSPRLLRVAVRVKNIDIT NFSSWNDGLAFCALLHTYLP AHIPYQELNSQDKRRNFMLAFQ AAESVGIKSTLDINEMVRTERP DWQNVMLFVIAIYKYFET
9728	40096	A	9788	3	605	DEWPPERIIQYNEPTTWH/EDGL WGYRTRFYMINQIIW/LQAILEII TNKTDRALTILAQQETQMRNAI NQNRALDYLPAAEAGGICGKF NLNCCCLHVDDQGGVVEDIVR DMLKLSHVPMQVWHGFDPGA MFGKWFPVLGGFKTLIIGVILVI GTCLLLPCLLPVLLQMIKSFIAT LVHQNASEQLYMMNHYSVLQ EYMGs
9729	40097	A	9789	3	876	GAGGGFGSPMDIFDMFFGGGG RMHRERRGKNVVHQLSVTLED LYNSATRKALQKNAICDKCE DRGGKKGVEYCPNCRGTGM QIRIHQIGPGKVQQIQSVCVEQ GHGEQISPKDRCESNCRKILR EKKILEFHIDKGMKYGQKITFH GEGYQEPGLEGEDIIIVLDQKD DAVFTRQGEDLFMCQIVKHGDI KCVINEGMPPIYPRPYEKGRLLIE FKVNLPENDFLSPDKLSLLEKL LPKRKEVEETDEMDQVELVDF DPNQRWHHYNGEAYEDDEH
9730	40098	A	9790	199	410	
9731	40099	A	9791	134	1369	KMVKETTYDYDLGVKPNATQE ELKKA YRKLAL\KY\HPDKNPN EGEKFKQISQAYEVLSDAKKRE LYDKGGEQAIKEGGAGGGFGS PMDI\FDMFFGGGGRMQRERRG KNVVHQLSVTLEDLYNGATRK LALQKNVICDKCEGR/SGRFKE QGAVRSACPNCRGTMQIRIHQ IGPGM\VQQIQSVCMECQGHGE RIRPKDRCKSCNCRKIVREKKIL EVHIDKGMKDGQKITFHGED QEPGLEPGDIIIVLDQKDHAVFT RRGEDLFMCMDIQLVEALCGF QKPISTLDNRTIVITSHPG\QIVK HGDIKCVLNEGMP\IYRRPYE\K GRL\IIEFKVNFENGFLSPDKLS LLEKLLPE\RKVEEETDEMDQV EL\VDVDFPNQERRRHYNGEAY EDDEHHPRGGVQCSDLLMGPV

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9732	40100	A	9792	3	337	GYSQAPRKR/GGECSSLSQPFSK AQPDAASLEPPSLETPAGRTPA TLTQGSPPAAVREPLSPGHNAK ARLRSRPARPPWIPDPDPPGHFV TDFCAPESLQGETRTRSRSFQLL
9733	40101	A	9793	1	346	SGS*QLQMCSGLPAHTQDETHI SSCGQLDLALPPLLPPLPPSPLN TLPPQGLCTC
9734	40102	A	9794	1	1110	MEGEEAAGAAGPDPVGHRRKC GFHPVCEREAPSTFAAVMIHLV VQYIGEICRYLLKQPVREAERR HRVRLAVGNGLRPAIWEEFTER FGVRQIGEFYGATECNCSIANM DGKVGSCGFNSRILPHVYPRL VKVNEDTMELLRDAQGLCIPC QAGEPGLLVGQINQQDPLRRF\ NGYVSESATSTKIAHSVFSKGD SAYLSRDALMMDELGYMYR DRSGDTFRWRGENVSTTDVEG ELSRLALGQTDVAVYGVAVPGK LGLQGVVLRHGVVEGKAGMAA VADPHSLDPNAIYQELQKVLA PYARPIFLRLLPQVDTTGTFKIQ KTRLQREGFDPRQTSDRLFELD LKQGHYLPNEAVYTRICSGAF
9735	40103	B	9795	28	376	
9736	40104	A	9796	3	461	VRQCRGIRDOPYRFFKKRTELFIA AEGIHGTGQFVYCGKKAQLNIGN VLPVGTMPGEGTIVCCLEEKPGD RGKLARASGNYATVISHNPETK KTRVKLPSGSKKVISSANRAVV G/VVSGSS*MLRAVGEHAVSAG GQPVARLGPWNSITCCSKTWV
9737	40105	A	9797	1	701	MQEVPGMFERNYPHPAITFKPS VPVSRSLDYAPLPGGVFRDPYW FKKRTELFIAAEGIHGTGQFVYC GKKAQLNIGSVLPVGTMPGMI VCCLEEKPGGRSKLSWASGNY ATAISHNPETKKTRVKLPSGSK KVVSANRAVVGVVAGGGRT DKPILKACQAYHKYKAKRNW WPRVWDVAMNPMEHPFGGN HQHIGIPSAI/SRDDPAGCKMGL IAARQTGRLWGTKTVQEKEN

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9738	40106	A	9798	1	910	QCGGIRRTGPVAMGRVIRGQR KGAFSVFRAHVKHRRGAARLR AVDFAERHGYIKGIVK/DAERW PGREGKGRPAGTPHSRRLCPQD IIHDRGR/GAPLA/RVVFRDPYRF KKRTELFVIAAEG/IHTGQF/VYC GKK/AQ/LNIGNVLPVGT/MP*/G TIVCCLEEKPGD/RGK/LARASG NYATVIS/HNPETKKT/RVKLPS GSKKVISSANRAVVGVVAGG/G /RIDKPIFEGWPGRYHKKYKAKR NC*PRIRGV/AMNPVEHPF/GGG NHQHIGK/PST/IRRDAP/AGRKV GLIA/ARRTGRLRGTKTVQEKE
9739	40107	A	9799	1	405	LEISIMAASISGYTFSAVCFHSA NSNADHEGFLLGVEVRQEETFSIS DSQISNTEFLQV/KVIGWYRFR RNTQQQMSYREQVLHKQLTRI LGVPDLVLLFSFISTANNSTHA LEYVLFRRPNRRYNQRISLAIPN
9740	40108	A	9800	1	232	
9741	40109	A	9801	1	420	
9742	40110	A	9802	3	1272	EISIMAASISGYTFSAVCFHSAN SNADHEGFLLGVEVRQEETFSISD SQISNTEFLQVIEIHNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIG/WYRFRRNTQQQ/MSY K/EQVLHKQLTRILGVPDLVFL LFSFISTANNSTHALEYVLFRRPN RRYNQRISLAIPNLGNTSQQEY KVSSVPNTSQSYAKVIKEHGTD FFDKDGVMKDIRAIYQVYNAL QEKVQAVCADVEKSERVVESE QAEVKNLRRQITQRKNEKEQE RRLQQA VLSRQMPSES LDPAFS PRMPSSGFAAEGRSTLGDAEAS DPPPPYSDFHPNNQESTLSHSR M/ERSVFMPPRQAVG/SSNY/AS TSAGFEVFLGSGADLPPQRAA GDSGEDSDSDYENLIDPTEPS NSEYSHSKDSRPMAPDEDPN
9743	40111	A	9803	3	513	GAYGGGYGACDNYNGYGYGF GSDRFGRDLNYCFSGMSDHKY GDGGSTFQSTTGHCII/VHIEIGP DGRVTGEADVEFATHEDAVAA MSKDKANMQHSYVEPFLNCAA GASGTA YGSQMMGGMGLSIQS SYGGPASPQLSGGYGGGYGGH SSMSGFDQVLQENSCDFQSDIA
9744	40112	B	9804	73	1127	

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9745	40113	A	9805	1	3647	MRVRHVGQAALLELLTSVRESR ATSAFQVSPYEDEPCRPCNCDP VGSLSSVCIKDDLHSDLHNGKQ PGQCPCKEGYTGEKCDRCQLG YKDYPTCVSCGCNPVGSASDEP CTGPCVCKENVEGKACDRCKP GFYNLKEKNPRGCSECFCFGVS DVCSSLSWPVGQVNSMSGWL TDLISPRKIPSQQDALGGRHQVS INNTAVMQRLAPKYYWAAPEA YLGNKLTAFGGFLKYTVSYDIP VETVDSNLMSHADVIK
9746	40114	B	9806	141	236	
9747	40115	B	9807	66	266	
9748	40116	A	9808	1	330	
9749	40117	A	9809	1	792	
9750	40118	A	9810	129	311	
9751	40119	A	9811	3	538	
9752	40120	B	9812	96	536	
9753	40121	A	9813	1	2090	MSSNQKSPTKTSKSPGTANVLD VNNSTLMFVGGLGGQIKKSPA VKVTHFKGCLGEAFLNGKSIGL WNYIEREGKCRGCFGSSQNEDEP SFHFDGSGYSVVEKSLPATVTQ IIMLFNTFSPNGLLLYLGSYGT KDFLSIELFRGRVKVMTDLGSG PITLLTDRRYNNGTWYKIAFQR NRKQGVLAVIDAYNTSNKETK QGETPGASSDLNRLDKDPIYVG GLPRSRVVRGVTTKSFVGCIC NLEISRSTFDLLRNSYGVKGC LLEPIRSVSFLKGGYIELPPKSLS PESEWLVTFATTNSSGIIAALG GDVEKRGDREEAHVPFFSVMLI GGNIEVHVNPBGDTGLRKALL HAPTGTCSGQAHSISLVRNRR IITVQLDENNPVEMKLGALVES RTINVSNLVVGPIPEGEGTSLT MRRSFHGCICNLIFNLDHGFVD SVEQKRFCGVPSARESARGRA QAQDTAQELQSESACDKRSPQP PGKGKHMVGGLVLPQSLFQKN LLLFYDEVLDLQPNGKEKEFSV GANHNAFMVVHWGVCGLF PSGEWLASPCVHPQITIHPDR FQASVTDEGYLFLAKPTQPAPA CPLDPIRPLLGHAAQQPLTLDQ HTDAAVTPSSAVTARAANYCA GGRNERKKTGREKRHLTGGPC VALRTFTVLHISHHQVDGIRA GYVQRDGLQPTNRQIVM

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9754	40122	A	9814	1	8705	MRGGVLLVLLLCVAAQCRQRG LFPAILNLASNAHISTNATCGEK GPEMFCKLVEHVPGRPVRNPQ CRICDGNSANPRERHPISHAIDG TNNWWQSPSIQNGREYHWVTI TLDLRQVFQVAYVIIKAANAPR PGNWILERSLDGTTTFSPWQYYA VSDSECLSRYNITPRRGPTTYRA DDEVICTSYYSRLVPLEHGEIHT SLINGRPSADDLSPKLLEFTSAR YIRLRFERIRTLNADLMTLSHRE PKELDPMLPR
9755	40123	A	9815	1	564	MGDLEDKLVPFIGELPRHLDQN SEQLKQVVQRELKELHETCQQ HQLCQASTSGEPKERDKEEGK DSKPRSLRFTWSMKTTSSMDPN DMMREIRKVL DANNC DYEQKE RFLFCVHGDARQDS/LPCQWG DGKSCQVGPRLS\LNGVVRFKRI S\GTSYCPLKNIA\SKIA\NELKP VKKSQIYQVQGRYIHI
9756	40124	A	9816	2	451	ANAHGFIMELQDGYSTETGEK GAQLSGGQKQRVAMARALVR NPPVLILDEATSALDAESEYLIQ QAIHGNL\QKHTVLIHARLSTV EHAHLIVVLDKGRVVQQGTHQ QLACPRAGFYGKLVQRQMLGL QPAADFTAGHNEPVANGSHKA
9757	40125	A	9817	1	498	MVKY/YLGQGVLRSSW/DQVV PA/FWQRYRNPVQRYLTEDIVH RENQTM TTTFTWNINHARPMVV EERCVCVNSDNSGWTEIRREA WVSSSLCGVSRVWVWFGLAQF KSNVTKTLKGFYILAKLQGEA ASKTLIKTAREAKEKAKETALA ATEKAKDLASKAATKKQQQ
9758	40126	A	9818	3	231	
9759	40127	B	9820	94	375	
9760	40128	A	9821	45	439	

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9761	40129	A	9822	304	1557	DRQNVMEQFNPGLRNLINLGK NYEKAVNAMILAGKAYYDGV AKIGEIATGSPVSTNELGHVLEI SSTHKKLQRESLMENF\KKFHK EIIHELEKKIEL\DVKYMNATLK RYQTEHKNKLESLEKSQAELK KIRRSQGSRNALKYEHKEIEY VETVTSRQSE\QKSIADGCKEA LLERERGASCFPGLNKHCGFA/ NTHIHYYHLQSAELLNS\KLPR WQETCVDAIKVP\EKIMNMIEEI KTPASTPVSGTPQASPMIERSNV VRKDYDTLSKCSPKMPPAPSGR AYTSPLIDMFNNPATAAPNSQR VNNSTGTSEDPSLQRSVSVATG LNMMKKQKVKTIFPHTAGSNK TLLSFAQGDVITLLIPEEKDGLW YGEHDVSKARGWFPSSYTKLL EENETEAVTVPTSPPTPVSFSG
9762	40130	B	9823	1	1128	
9763	40131	A	9824	1	434	
9764	40132	A	9825	92	319	SIPPYPISPPVDRKEID*LEGMQT SGLFQQTSG*EEGVGSIMASGR PPHPEPLKADFICKREVRLAFSI ACIWMR
9765	40133	A	9826	1	851	
9766	40134	A	9827	227	305	LVIFSIFNLVG*NISDCIILICQLK
9767	40135	A	9828	66	808	YCWQSQGAKPRDLLGPDLIPLN HSPRVSHLLCHRRHKAAGGVFV ADEIQVGFGRVGKHFQWAFQLQ GKDFVPDIVTMGKSIGNHPVA CVAATQPVARAFEATGVEYFN TFGGSPVSCAVGLAVLNPLEK EQLQDHATSVGSFLMQLLGQQ KIKHPIVGDVRGVGLFIGVDLIK DEATRTPELKRHVYLVSRLEK NYVLLSTDGPGRNLIKFKPPMC FSLDNARQVVAKLDAILDME EKVRSCENR
9768	40136	A	9829	3	597	

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9769	40137	A	9830	1	3281	MGFHHVGGAGLKLTSCTPQL LALVQHWVPGARLVEELPHEL VLVLPYTGAGHDSFATLFRLED TRLAELRLTGYGISDTSLEEFL KVVEECAADTDMEDG/TLRAA PMHRHCWPRRNPTAQDAATGD SAG\DGEPAGSAPETDQSGSPD AVGRVQGWALTRQQLQALL KRFLARRSRRLFAQIVLPALF VGLALVFSLVPPFGHYPALRLS PTMYGAQVSFFSEDAPGDPGR ARLLEALLQEAGLEPP
9770	40138	A	9831	1	684	RTRGPPQSRSGRRRIPLYLP TSCIKELVAGGVAVESWPGRD AAQLLLCSCLLSPPVMTETRE PAETGGYASLEEDDEDLSPGPE HSSDSEYTLSEPDSEEEDEEEEE EEETDDPEYDPGYKVK*RLGG GRGGPSRRAPRAAQPPAQPCQ LCGRSPLGEAPPGTPTCTGTSCC MPGVRCRQSPHTGSLAEGVGW EEGAEIEGVTVVMGDGVLPV CVVLEVDV
9771	40139	A	9832	1	670	MESDIGRKGKGDPEAGPEHSSD SEYTLSEPDSEEEDEEEEEET TDDPEYDPGYKVKQRLGGGRG GPSRRAPRAAQPPAQPCQLCGR SPLGEAPPGTPTCRLCCPATAPQ EAPAPEGRALGEEEEPPRAGE GRPAGREKEEEEEEGTYHCTE CEDSFDNLGELTGTSCCMPGV RCRQSPHTGSLAEGVGWEEGA EEIGVTVVMGDGVLPVCVVL
9772	40140	A	9833	3	512	
9773	40141	A	9834	3	815	MLYSRGPQPMGHGPVLVCGLL GTGCTAGAQLREAYTSSSQID QAEERISEIEDKLNEIKREDKITE KRMKRNEQSLQEIWVYKRPN LRLIGVPKSDVENGTKLENTLQ DIIQENFPNLARQANVQIQEIQR TPQRYSSRRATPRHIVRFTKVE MREK\MLRAAREKGRVTHKGK PVRLTADLSAETVQARREWGPI FNILKGKNFQPRISYPAKLSFISE GEIKYFTDKQMLKDFVTT/RPA LKELLKEALNMERNNWWYQPLQ KHAKL

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9774	40142	A	9835	1	561	MVNGRIPQAPSQFSHLARLHPA PSPNSDPSPFLAELLLMPSVIGL TPSYPSRFSSESTFLQEAFDLC QAEDPVYANGGLNYSYRGYGA LSSNLQPPASLQTGNHNSNGPTD L\SMKGGAF TTSTTPTPTPSSTST SRPVPTAQLSPTEISAVRQLIAG YRESAAFLLRSADELENLILQQ NRPRRHL
9775	40143	A	9836	2	226	KGVQFQFSSYG*PVFPTPFIK*G VLSPLFVFLRFLKDQMPVDV*H YF*GLCSVPLVYISVLVLPCCF FFTVAL
9776	40144	A	9837	2	350	YKVS KPAQLCSQQVKYLWLK LSKGTRALSEERIQPILAYPHPK TLKQLRGILGITGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9777	40145	C	9838	213	365	
9778	40146	A	9839	1	1923	

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9779	40147	A	9840	I	2091	MVLVVVAVVVVVLVVAVIVV VVVVVAAVVVGAVVVVVVVV MVVVVVVVVVEEDNQHKGTGA INNNNTAKNPQQSPFHSPATST GAEATQMRRNQKTNPHNMTK QVSLTPPKITLAHQWQTKKK YLIYLLKKHSGVKNKIPRNPTYEG CEGPFQGELQTTAQQNKGGHK QTEDHSMMLMDRKNQYCENGH TAQAVPNPYTLTSQIPEDAWEF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVLPQGFR NSPHLFGQALAQDLSQFSYLDT LVLRYMDDLLLATHSETLCHQ ATQALLNFLATCGYKVSKPKA QLCSQQVKYLGLKLSKGRTRLS EERIQPILGYPHPKTLKQLTAFL GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPEAEVAF QALKKALTHAPVLSLPVGQNFS LYVTEKVTGIALGVLT/PGTSAQ LAELIALTRAPELGEGKRVNIY ANSIGREREFLTSKGTLVKHQE AIKRLLLAVQKPKEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPEMLTEGPLAFELA MATARAELSLAIHHCLPPPPQ TRCWLPRLRIRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPQV REHEACHHLGSLPPFWKWPT TILGALGARTPGNTGSTYTFIGY TYTSPVIFILSWQYVYFHGLYY
9780	40148	A	9841	I	1284	

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9781	40149	A	9842	1	1522	MVAPGSVTSRLGVSVPFLLVLV DLQYEGAECGVNADVEKHLEL GKKLLAAGQLADALSQFHAHV DGDPDNYIAYYRRATVFLAMG KSKAALPDLTKVIQLKMDFTA ARLQRGHLKKQGLDEAEDD FKKVLKSNPSENEEKEAQSQLI KSDQMQLRSQALNFGSGDY TAAIAFLDKILEVCVWDAELRE LRAECFIKEGEPRKAISDLKAAS KLKNDNTEAFYKISTLYYQLGD HDCSFSEFRDVLNLDQDHKR\C FAHYKQVKKLNKLIESAEELIR DGRYTDATSKYESVMKTEPSIA EYTVRSKERIC\HCF\SKDEK\PV EA\RVCSVLQMEPDNVNALK DRAEAYLIEEMYDEAIQDYETA QEHN\ENDQQIREGLEKAQRLL\ KQSQRDYY\KILGVKRNACK QEIIKAYRKLALQWHPDNFQNE EEKKKAEEKKFIDIAAAKEVLSD PEMRKKFDDGEDPLDAESQQG GGGNPFHRSWNSWQGFNPFSS GGPFRFKFHFN
9782	40150	A	9843	5	519	LTCQEEHKKKHPDSSVNFVEFS KKCLERWKTTSAKEK/SKFEEK AKSDKARCDREIKNYIPPKCKK GRPPSAFFLCSEHRPKIKSGHP GLFVVETAKKLGMWSGQSAK DKQPYEQKAVKLQERYEKGIA AYRAKGKSEAGKKGSKKNKPE DEEEEEKEDEDEEEGEDEE
9783	40151	A	9844	1	3140	YSIATVLAEEKLDPRRDEAKR LRPQRNFNITFTHTGVFRPLTLE STFFNSALLFTTIKQDLPLPKTI ITNAFHRFRNHHQTGFKLSAAN QRGPLAATLSGPGGEGQSAVA RLTGEKKNHPGAQYANRLSPR VGRFINAAGTTGFPTGKRARS SSLAKENNQKAYKETYGVSHIT RHDMLQIPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFY

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9784	40152	A	9845	2	604	FLELPAAAAA VLSASPGALER EARS PRSPQTADTSPRPRAPAC APSRARAMPSDRPFKQRRSFAD RCKEVQQIR\ DQHPSKIPV\ IIER YKGEKQLPVLDKTKFLVPDHV NMSELVKIIRRLQLNPTQAFFL LVNQHSMVSVSTPIADIYEQEK DEDGFLYMVYASQETFGF*ASS PCLSAHLPLTHPRLCPPGPAHP
9785	40153	A	9846	3	303	RDQHPSKIPVIIERYKGEKQLPV LDKTKFLVPDHVNMSELVKIIR RRLQLNPTQAFFLLVNQHSMVS VSTPIADIYEQEKD\ EDGFLYM VYGLPGKPFGE
9786	40154	A	9847	254	2110	
9787	40155	A	9848	234	1904	
9788	40156	A	9849	5	189	
9789	40157	A	9850	1	1546	MASASSQPSLA VGFSSFDPGAP SCTASSAGILSPTASEVPYASG MPIKKTGHRGVDSSGETTYKKT TSTALKGAIQLGITYTVGSLSTK PERDVL MQDFYV VESIFFPSEGS NLTPAHHYNAFRFKTYAPVAF RYFRELF GIPPDDYLCSLCSEPLI ELCSSGASGSLFYVSSDDELIK TLQHKEAEFLQKLLPGYYLNL QNPR TLLPKFFGLYCVQTGGKN IRIVVMNNLLPRSVKMHKIDL KGSTYKRRASQKEREKPLPTFK DLDFLQDIPDGLFLDADTYNAL CKTLQRDCLVLQSFKIMDYSL WLSIH NIDHAQREPLSSDTLQV SIDTQRLAPQKALYSTAMEFIQ GEARL GDTMEADDHMGGIPAQ NSKGERLLLYIGIIDILQSYTFLK KLEHSWKA VVHDGDAVSVHR PGFYAERFQHFMCAVFKKIPL KPSPSKKFRSGLSFSLHTGSSGN SCITYQPLVSEEHKSQVIKQVE PGVHLGRSDVLPQTSE\ PPLEEIT

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9790	40158	A	9851	233	2051	AGPGAGSTCLREARRGRGGGP QNAGSVKRRWEDSIPRRGRTGL KESQAAEGEGAAMASASSGP SSSVGFSSFDPAVPSTLSSASGI KRPMASEVPYASGMPIKKIGHR SVDSSGETTYKKTSSALKGAI QLGITHTVGSLSTKPERDVLMQ DFYVVESIFFPSEGSNLTPAHHY NDFRFKTYAPVAFRYFRELFGI RPDDYLYSLCSEPLIELCSSGAS GSLFYVSSDDEFIIKTVQHKEAE FLQKLLPGYYMNLNQNPRTLTP KFYGLYCVQAGGKNIRIVVMN NLLPRSVKMHICYDLKGSTYK RRASQKEREKPLPTFKDLDFLQ DIPDGLFLDADMYNALCKTLQ RDCLVLQSFKIMDYSLLMSIHNI DHAQREPLSSETQYSVDTRRPA PQKALYSTAMESIQGEARRGG TMETDDHMGGIPARNKGERL LLYIGIIDILQSYRFVKKLEHSW KALVHDGDTVSVHRPGFYAER FQRFMCNTVFKKIPLKPSPSKKF RSGSSFRRAGSSGNSCITYQPS VSGEHKAQVTTKAEVEPGVHL GRPDVLPQTPPLEEISEGSPIDP SFSPLVGETLQMLTTSTTLEKLE
9791	40159	A	9852	30	298	EPFIFLFIYLFYLFETESRPVIQ AGVQWCNSSLQPLPTGFKQFS CLSP\TSWDYRHPPPCPANFCS FSRDGVSPCWPGWSQTPDLR
9792	40160	A	9853	3	938	
9793	40161	A	9854	208	870	LGMAGRLFTVNLQSPLNPSTLL AEVCVEQCTLMDSKMKPLWIM YSNEEAGSGGRVSVSLKRDDD LWQDMLTMQTIRLMDVPDTIA NIQLNNRNMMDGGNEEFTLSCA GYCVATYVLGIGDRHSDNIMIR ASGQLFHIDFCHFRQRPVFIITY DFVHVIEQGKTNN/SEKFERFRG YCERA\YTILRRHGLLFLHLFAL MQAAGLPELSCSKDIRYLKDSL VHPL

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9794	40162	A	9855	1	790	VEELSKKLADSDQASKVQQQK LKVGQLGEVWVPLDKGGKLF KLWGRGGLVYKWFLLIYKISY ATGIVGYMAVMFTLFGNLLF KIKPEDAMDFGISLLFYGLYYG VLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCAVCGQQI FVDVSEE/EDH*EHRC/CFHEF CIRGWCIVGKKQTCPCYCKEV DLKRMFSNPYPLLGSLLGVGCG KKVLASVTCIWVLLGPSLLPPT RTCQTMNNKKIMKVMRIKR MMTDTMAS
9795	40163	A	9856	1	1005	FRGRAVKMAAVVEVEVVGGA AGERELDEVMSDLSPEEQWR VEHARMHAKHRGHEAMHAEM VLILATLVVAQLLLQWKQRH PRSYNMVTLFQMWWVPLYFTV KLHWWRFLVIWILFSAVTAFTV FRATRKPLVQTTPRLVYKWFL IYKISYATGIVGYMAVMFTLFG LNLLFKIKPEDAMDFGISLLFYG LYYGVLERDFAEMCADYMAST IGFYSESGMPTKHLSDSVCAVC GQQIFVDVSEEGDHETTYRLSC NHVSHEFCIRGWCIVGKKQTCPC YCKEVDLKRMFSNPWERPHV MYGQLLDWLRYLVAWQPVIIG VVQGINYILGLE
9796	40164	A	9857	28	267	LNIGKGDSSKPRGKMSSYAFFV QTCREEHKKQHPDASVNFSEFS YKKDIAAY*AKGKPDAACKGFI KAEKSKKKKEEED
9797	40165	A	9858	1	194	MGKGDPPKLRGKMSSYAFFVQ TCQEEHKKQQPDASVNFSEF/S KKCSERWKTMSAKEKSEDMA KL
9798	40166	A	9859	241	958	HQIFILFFRKITKHGQRRSLRSPR GKMSS\FAFFVQTCREEHKKRH PDASVN\FSEFSKKC/SQRGWKT MS\SKEKGKF*RYGQKRDKAR YER\EMKTYYP\S/KGGDQKRSF KDPNAPQGGPPFGPSFLFCSEY RPKIKREDHPGLSIGDVAKKLG EMWELTLLQ/SDKQPYEKAA KLKEYEKDIAAYRAKGPDA AKKGVVKAESKKKKKEEED EDEDEEEEEDEDEDEDEDEDD

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9799	40167	A	9860	2536	2909	KSGVPGSRFSSSDKSDTGVTGL FSTYFLKSDFQLQLIDISASTAS KSLFSAVL FQEYILSFGLSEIISIL SSAVCWREAPKLSMVGCLAAG GKLTGC*AAGCLATDGR TETL DAAPAAAALSAV
9800	40168	A	9861	5	1752	KCTICLRNS/IAVCCGCGQGLSG YLN GEGADGAERGGGGSGVEC LRAPVCGQAASSLAASQLAAG GQAANHAQLRCLSPADCALML FIQVEVLTNSIAMVSVHLEKQP LKLVLGELGFRSPAGEEQATPV VGGEGLGCIEDSAAVAEGGIAI GGIVGINTALQEV LKPHTIKMQ RNNAQLSRRKEPKGLCGERG QDRMSRAKGSSSKGKELPPGCR RVTMKPLL VRETQEGQAAERG AEEQLQTLGPFAVYRDSPSKNF YKRDKMLKGLEEAKVNFVWR TNEG FLEEDAGQEFGIQKAVTP ALCPSRKA EVPLSCLTLKLS ED GKAKKAPYNTGPLGLLHLSMC SHSRKGFEQLWQLNSGKLLQG PRDSVEGSARRAETA VHCPAVL HFAPALLLAALRCQRDLESAAA PSHTRSCQHPRLLSGAVQTAGF SNPPKVVIQIKWNFLVMLLNFP GSTKLIARLKQQMNYKEMASQ RLTQSM LPHRSRLIGAGPCNRC VHPEPVIVTLFGQKV FARIKKKN QTCLCSQIWCAHYQQGWICA WLAGFGKIYIFSTIGVIDTLSSG HIHLQP NCTARDSASWESPA
9801	40169	A	9862	1	668	MWRLVIQDAKDENGVLVGNR VLAHSSLAVLSCLALNNRRISG WTP/CGPSGSPPGFMGRRGTST/ RLPTG**CPEGQPPRCPCG*ASG CASSPAECRMPATHLPNGSGRV PFPPGPVNYSPLRLQAPEQVTG S/SPWPFS/RPVLGPLPLEGS\PPP F/RLPPRPRPAGVAAGSSWGHS AASVRRSPGRRPEGESIHPRPPA SRLPWLRATREEEAGAPKLGED SYPNF

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9802	40170	A	9863	2	624	FMGRRGTSTPFPLADNAPRGSP PGAHVVGWDPDLRRAPVTGF SCSGSCSQRGAAWESFPRSP CRASGCASSPAECRMPATHLPG NSGRVPFPFPGPVNYSPLRLQAP EQVTGS/SPWPFS/RPVLGPLPLE GS\PPPF/RLPPRPRPAGVAAGSS WGHSAA SVRRSPGRRPEGESIH PRPPASRLPWL RATREEEAGAP KLGEDSYPNF
9803	40171	A	9864	51	225	
9804	40172	A	9865	1	276	AFAAIPTNTLLLEQKALDEPAE TESVSKDNTL*PPVETPTTLPR AGRETKYANLSSPTSTVSESQ/P D*AWSNSPSTCKIQNITEKRGG SL
9805	40173	A	9866	3	441	QTNFKGCSKVTSSKLNMSLLW TPTGR*GCDRKVEQGPGLGT AAVRPKSLAISSSLVS/ACSASK TQGTDLKTSSHPEMLHGMAPQ QKHGQQYKTKSSYKAFASIPYK HIAFGTEDS/STTLPRAGRETK YANLSSPTSTVSESQAD
9806	40174	A	9867	123	417	SLDLDFTVSGLSLDSSGILTR NLEVSAN*VWVGSLLTVGTNV KIRGLASEPPAETVSFSSKFLFN KLLFSRFSSSILKENEKERKNER HRGSNSV
9807	40175	A	9868	153	1624	TTRRKSMNPTLSGKYLEDNSDL FSEQALDEPAKTESVSKDNTLE PPVELYFPAQLRQQTEELCATID KVLQDSL SMAPSLSPKQASSS LAYMNVERTPSPTLKSNTMLSL LQTSTSSSVGLPPVPPSSSLSLK SKQDGDLRGPENPRNIHTYPST LASSALSSLPINQRATFSSEK CFHPSPALSSLINRSKRASSQLS GQELNPSALPSLPVSSADFASLP NLRSSS/APSCQSAHPGAPASL SSAPTCSGSLPSRLGKSESTTP NHRSPVSTPSLSISLRTTELISP CALSMSTGPKNKKSKTPTTLPR AAGRETKYSKNDYLTNLNAGS QQRDQAKLTCPEVSGTILQE REFEANKLQGMQQSDFKA EY VLIVDSEGEDEAASRKVEQGP GGIGTAAVRPKSLAISSSLVSDV VRPKTQGTDLKTSSHPEMLHG MAPQQKHGQASAYKGEESNEE DWTILKSSRMTNPRKLSDNKI
9808	40176	A	9869	1	762	

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9809	40177	A	9870	1	537	
9810	40178	A	9871	490	681	MGLVLLHVVGKLGSSWLRNGSQ ETAGQIISPLSSWHDGTGAGAAAL DFSPGLSCLPVR*GSRRAAPH
9811	40179	C	9872	258	527	
9812	40180	A	9873	1	2865	MLPAFEHQTPSSSAFGLLNLLQQ WVVRGSRAFGHRLKAALSGSL LLKFSDSDWLPCSSACRGPVIG LHLVIVYVKSHQNA YRHKNLQL KQTLSCNTTKVRSFIIEVSETR NPPAGTNSGHILGTCPGYRYAK GKETGKEIHKGPQNPPGYRLCPL QAVGGGEFGPTQVHVFPFSLSDL KQIRVDLKGFSDDPDRQYPLRP EAHEGLQDILRYLKVQGLVRK CSSPCNTRILGVQKPKGQWRLV QDLRFINEAVIPL
9813	40181	A	9874	3	177	
9814	40182	A	9875	255	1299	AAVFPLWCWRTRGKCHSLEWR PCTVCSWPDSPPKVSAGQALCG SETLPLTQTPDIQVPATLESGHP ANLL\VSAAWKSRLSIFSWTW GTVISLGPRTPHFSEITIPLPWS HGSSITFQVTFPRFHVTTMTIQ LNVSSPVALENATSLSVLKNQS LRFVYVTDSPPARLSWTWEG QALNLSQSSSAVLELPPVESC DGGEFVCQAQHPLGSQHVSI SVQSDSVISIEEGLVQLTGLFTLIR GILMGTSCTFCGFTWICCTSPVI PKPGTQSCFSTRDSATLPDACC SPGPKRVWMCSESHQPLCAVP DEDEQELHYAVLHFHKVQPQE PKVTDTEYSEIKIHK
9815	40183	A	9876	27	385	ASTTTGSGTSTAAARCTAWSPG PLVTAVEKFEAEAAAALGQRIST LQKGSPDPLQVRMLNDQLMLL ERTFLNPRAPFEERYYSVLWA /PSHGLRSHIPGLSNACSRARDT ASGSEAWAEG
9816	40184	A	9877	160	480	
9817	40185	A	9878	19	433	GLDHGWAGDRWRTRPVVGAG EGRAPRLNSPSGQIRSPGPGDLS IYDNWIRYFNRSSPVYGLVPGF SSHQAVARTAGSVILRLSDSFFL PLKVSDYSETLRSFLQAAQQDL GALLEQHSISLGPLVTAVEKFE AKAAAL

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9818	40186	A	9879	1	996	MALSKERSTVTRTQWARKTML QGETIQISESVSTYLRPYSVSGT VLGTNMSKTSARIYPTYHTAFD TFDYVDKFLDPGFSSHQAVART AGSVILRLSDSFFLPLKVSDYSE TLRSFLQAAQQDLGALLEQHSI SLGPLVTAVEKFEEAEAAALGQR ISTLQKGSPDHVLWA/PSHGLRS HIPG\LSNACSRARDTASGSEA WAEVQRQLSIVVTALEGSVEAL HEVLQLPAALRACPLRKALAV DAAFREGNAARLFRLQLTLPYL PSCAVQCHVG HARREALARFA RAFSTPKGQTLPLGFMVNLLA WMDSGKHGTCARPTGCPWTER RELCS
9819	40187	A	9880	66	744	RAHEDRERSGVQIRTQSWNGG KREKDFLHQSG\ETLLMKGC WRKSKTSARIYPTYHTAFDFTD YVDKFLDPGFSSHQAVARTAG SVILRLSDSFFLPLKVSDYSETL RSFLQAAQQDLGALLEQHSISL GMHSPDPEVRMLNDQLMLLER TFLNPRAFPEERYYSVHLWA/PS HGLRSHIPG\LSNACSRARDTAS GSEAWAEVQRQLSIVVTALEG AAATLRPVADL

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9820	40188	A	9881	2	2241	PRVRRMQWTKVLGLGLGAAA LLGLGIIILGHFAIPKKANSLAPQ DLDLEILETVMGQLDAHIREN LRELSREPHLASSPRDEDLVQL LLQRWKDPESGLDSAEASTYE VLLSFPSQEQPNVVDIVGPTGGI IHSCHRTEENVGTGEQGGPDVVQ PYAAYAPSGTPQGLLVYANRG AEEDFKELQTQGIKLEGTIALTR YGGVGRGAKAVNAAKHGVAG VLVYTDPADINDGLSSPDETFP NSWYLPPSGVERGSYYEYFGDP LTPYLPAPVSSFRVDLANVSGF PPIPTQPIGFQDARDLLCNLNGT LAPATWQGALGCHYRLGPGFR PDGDFPADSQVNVSVYNRLEL RNSSNVLGIIIRGAVEPDYVLY GNHRDSWVHGA VDPSSGTAVL LELSRVLGTLKKGTWRPRRSI VFASWGAEFGLIGSTEFTEEFF NKLQERTVAYINVDISVFANAT LRVQGTTPPVQSVVFSATKEIRSP GPGDLSIYDNWIRYFNRSSPVY GLVPSLGLSLGAGSDYAPFVHFL GISSMDIAYTYDRSKTSARIYPT YHTAFDFTDYVDKFLDPGFSSH QAVARTAGSVILRLSDSFFLPLK VSDYSETLRSFLQAAQQDLGAL LEQHSISLGPLVTAVEKFEAEA AALGQRISTLQKGSPPDPLQVRM LNDQLMLLERTFLNPRAPFEER YYSHVLWAPSHGLRSHIPG\LS
9821	40189	A	9882	1	1962	
9822	40190	A	9883	1	166	MEYYAALKKDEFMSFVGTWM KLETIILSK\VCQGQKVKHHMFS LTGALLVRGPWA
9823	40191	A	9884	1	378	
9824	40192	A	9885	1	681	
9825	40193	A	9886	1	3174	MEYYAAIKNDEFMSFVGTWM KLETIILSKLLQGQKTKHRMFSL IGSIIVKVPSSLQAHLQLSGKEV DVNSEVHVQEMAEARKDDVV TVTDAEKALDKIQHLFMVKTLS KIGIQGTYLNVIKAIYDKPTANII LNGEKLKAFPLRNETRQGCPLS PLL FNTVLKVLARAVRQEKEIK GIQIGKEEVILSLFADDMIVHLE NPIVSAQNLLKLIDNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASER
9826	40194	B	9887	1	352	

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9827	40195	A	9888	3	430	FFFFLPVAGLRRPRRLGPVPPR PRVPPPQDRAATMKKFFQEFKA DIKFKSAGPGQKLKESVGEKAH KEKPNQPAAPRPPRQGPTNEGTD GSRCCQP/WLEQKQSRAWGPH IAGHHPKPGEKGTSSRSHRQRE PRGPRDQRGI
9828	40196	A	9889	1	1062	MKKFFQEFKADIKFKSAGPGQK LKESVGVWGRPNGLMSVKGN CECGNLWLLYPEVAALAAEAE GPEVGSVEDQRRQQGYFVRLG SLSARIRHLAYEHVSGKLRQSK HRAQDTLAQLQETLELVDHMP CGVTPTAPARPGKVHELWGEW RQRPP/REPPPE\QAELETVLAR SLTHELQGTVEALEFSVWGLPA GAQEKVAEVRRSVDALQTAF DARCFRDVPAAALAEGRGRVA HAHACVDELLELVVQAVPLPW LVGPFAPILVERPEPLDLADLV DEVIGGPDPRWAHLDPWAQQR AWEAHRDGSNGDGDGRMGV AGDICEQEPETPSCPVKHNPDA RAGLLTHGPVEAG
9829	40197	A	9890	11	285	
9830	40198	A	9891	2	138	FFFLGFHVFYSIPLIPRDNF*GV FSSLDLITAVFVTLAELRSVT

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9831	40199	A	9892	121	2320	EMAFQKAVKGTILVGGGALAT VLGLSQFAHYRRKQMNLAYVK AADCISEPVNREPPSREAQLLTL QNTSEFDILVIGGGATGSGCAL DAVTRGLKTALVERDDFSSGTS SRSTKLIHGGVRYLQKAIMKLD IEQYRMVKEALHERANLLEIAP HLSAPLPIMLPVYKWWQLPYY WVGIKL\YDLVARKANCLKSSY VLSKSRALEHFPMLQKDKLVG AIVYYDGGQHNDARMNLAIALT AA\RYGAATANYMEVVSL\LK TDP\QTGK\HVHSGARCKGCPST GQEFDVRAKCVINATGPFTDSV RKMDDKDAAA\ICQPSAGVHIV MPGYYPESMGLLDPATSDGR VIFFLPWQKMTIAGTTDTPTDV THHPIPSEEDINFILNEVARNYLS CDVEVRRGDVLAASGIRPLV TDPKSADTQSSSRNHVVDISESG LITIAGGKWTTYRSMEDTINA AVKTHNLKAGPSRTVGLFLOQ GKDWSPTLYIRLVQDYGLESEV AQHLAATYGDKA FEVAKMAS VTGKRWPVGVHLVSEFPYIEA EVKYGIKEYACTAVDMISRRT LAFLNVQAAEEALPRIVELMGR ELNWDDYKKQELETARK\FL YYEMGYKSRSEQLTDRSEISLL PSDIDRYKKRFHKFDADQKGF TIVDVQRVLESINVQMDENTLH EILNEVDLKNKGQVELNEFLQL

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9832	40200	A	9893	1	2020	MLKPLMGGGAHRRAAAGARK WDGTAAHASTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPQTGKVRVSGARCK DVLTTGQEFDVRAKCVINATGPF TDSVRKMDDKDAAAACQAISA GVHIVMPGYYSPEMGLDPAT SDGRVIFFLPWQKMTIAGTTDT PTDVTHHPIPSEEDINFILNEVR NYLSCDVEVRRGDVLAAWSGI RPLVTDPKSADTQISRNHVVDI SESLITIAGGKWTYRSMAED TINAAVKTHNLKAGPSRTVGLF LQGGKDWSPPLYIRLVQDYGL ESEVAQHAAATYGDKAFAVAK MASVTGKRV/WPIVGVRLVSDF PYIEAEVKYGIKEYACTAVDMT SRRLAFLNLQAAEEALPRL ELMGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSIDRYKRRCHKFDAD QRGFMTVVEVQRVLESINVQM DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQKGRVSGSRLAI LMKTAEENLDRRVPIPVDRSCG GLYFCVRNWWVLGLTDFKNE AADPSGVKLQFTVSVTALKV ARLELFVSPGGLVVLLGSGVKL QIFAPNMAMHNKAAPPQIPDTR RELAELVKRKQELAATLAKFG
9833	40201	A	9894	2	593	ISSAVEFETSQLSGLWTEQSAA RSRGENIVCGPQGPRG/GPWVP AEPTGSPVVSEEPLDLLPTDLR QEMPPRVFKSFLSLLFQGLSVL LSLAGDVLVSMYREVCSIRFLF TVVSL\NLFLSAFWLGLLYLVS PLENEPKEMTLSEYHERVRSQ GQQLQQLQAELDKLHKEVSTV RAANSERGAKLVFQRLNEGFV

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9834	40202	A	9895	1	1105	MRRSSRPGSASSSRKHTPNFFSE NSSMSITSEDSKGLRSAEPGPGE PEGRRARGPSCGLLFQGLSVLL SLAGDVLVSMYREVCIRFLFT AVSLLSLFLSAFWLGLLYLVSP LENEPKEMLTSEYHERVRSQG QQLQQLQAELDKLHKEVSTVR AANSERVAKLVFQRLNEDFVR KPDYALSSVGASIDLQKTSHDY ADRNTAYFWNRFSFWNYARPP TVILEPHVFPGNCWAFEGVQGGQ VVIQLPG/HECTLSDITLQHPPPS VEHTGGANSAPRDFAVFFLLSF FTHQGLQVYDETEVSLGKFTFD VEKSEIQTFFHLQNDPPAAFPAK KIQILSNWGHPRFTCLYRVRAH GVRTSEGAEGSAQGPH
9835	40203	A	9896	10	395	VEPGKRLIDRIVETICSCFQGPQ TDEGVQLQIIKALLTAVTSPHIEI HEGTILQTVRTCYNILASKNLI NQTTAKATLTQML/NHARSDSG KVSTENGDA PRERGSSLSGTN\ DGAQEVVKDILEDVVT

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9836	40204	A	9897	1	1698	MLGTSVEDIAQFLHQEERLDST QVGDFLGD SARFNKEVMYAYV DQLDFCEKEFVSALRTFLEGFR LPGEAQKIDRLMEKFAARYIEC NQGQTLFASADTAYVLAYSIIIM LTDDLHSP/PDLEMHQ PAGARS ADNRNCE DALPVWIWA*KRRE PEGPHIGRRRVHGPWPR*FGEW RSG*KTDGQLPRIGW*DQLAEC GCSCGQDFYWVYQTGWKCNS* LCPLAVCCVHG*TGFPSSHV QLAEDCGDIIHQHESDPTTVVS NMACDWRS LQ*DKL*MLGTSV EDIAQFLHQEERLDSTQVGDFL GDSARFNKEVMYAYVDQLDFC EKEFVSALRTFLEGFR LPGEAQ KIDRLMEKFAARYIECNQGQTL FASADTAYVLAYSIIIMLTDDLH SPQILKCISQLELAQLIGTG VKT RYLSGSGREREGSLKGHTLAGE EFMGLGLGNLVSGGV DKRQM ASFQESVGETSSQS VVVAVDRI FTGSTRLDGNAIVDFVRWLCA VSMDELASPHHPRMFSLQKIVE ISYYNMNRIRLQWSRIWHVIGD HFNKTSCDRLRELHVSEVFTVI TETRETKGPRDTPIFIETLVKVK DAEDQLGARVGYIELDLNSGKI LESFRPEERFPM MSTFKVLLCG AVLSRIDAGQEQLGRRIHYSQN DLVEYSPVTEKHLTDGMTVRE LCSAAITMSDNTAANLLLTIG
9837	40205	A	9898	1	492	
9838	40206	A	9899	1	3555	
9839	40207	A	9900	1	4145	MFVLKVGCP SLLLRDPRRSLLH YTCFTSVPVLVQVCNPNEDV AIFAVDSLRLQLSMKFLEKGELA NFRFQKDFLRPF EHMKKNRSP TIRDMAIR CIAQMVNSQAANIR SATIFQH HFPAAIDSFQDAVKCL SEFACNAAFP DTSMEAIRLIRF CGNYL\SERPRV LLEYTSDDMN VAPGDRVWVRGWFPILFELSCII NRCKLDVTRGLTVMFEIMKS YGHTFEKHWQDLFRIVFRIFD NMKLPEQLSEKS

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9840	40208	A	9901	1	5477	MQESQTKSMFVSRLEKILADK EVKRPQHSQLRRACQVALAWK LLLIAPLAVGKATPVKMWSNK VEQLTVMNMHSAEQETDEIKA EIEKQRLGTAAPPKANFIEADK YFLPFELACQSKSPRVVSTSLDC LQKLIAYGHITGNAPDSGAPGK RLIDRIVETICSCFQGPQTDEGV QLQIHKALLTAVTSPHIEIHEGTI LQTVRTCYNILASKNLINQTT AKATLTQMLNVIFTRMENQVL QEARELEKPIQSK
9841	40209	A	9902	2	740	TGWEGRAEAEVPQDDRREPRH S/IEVEEEDQKLVSASLEPIGG/P PDCPQKPQ\QCPLSPSKKWGC DLCL*QHKLAQKWRREISTSV SQPGLGPGR TADTGPSLPT\TPA GQEAGRTPAPPAWSAFDLST VVKMEKGWICS*KYTRSQASC SELPRLGRAGPTEELGMPTQE VAPLPARG*GPESLPL/ASRQEF LSGRTVRVKLG LPLPLTEGKIV LPGGEGGSPHVCPSPWIIERRTA DQGVVAE
9842	40210	A	9903	1	1376	MPSSSVGPAPPSLRGSSEQLA W LRGIFSYRSSPPSPQQSSPNQTR SRQHYAPSVFEKYTASVTVGSK EVTNLNLYDTAALAGPWPALHS WRPLRGAGCGALEAKPYTKQ WAALGPPMVPGLLRYLLWSLQ TLATPGQRPREGPHAHTPRAEA TAGQEPARDPKGSARNPEPQRP RGKGVRAAPKQGVGRMSIPAQ PHASTRAGSERRSE\QRRLLSSF TGSCDSDLLKFNQLKFRKKKLLK FCKSHIHDWGLFAMEPSGDPLE SAWIHARNAPTTTTPSQTPHPPPR EAGNPNPPPRAPEARGPGHDKA AQKACVHGGPNTQHPRPQPEP AVPPAALAPPPKHQLSSQASSPS RLGRAAERPHKTQQRQTPTHT GPRAAATAEHAPQALPPPAPAP HYNRTRPAQLRNPPTPKKGSEE PAQPTKHTPATPAKRD PKGGG ARRRPARPLQPHSGGEEDEKES

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9843	40211	A	9904	724	2076	KLCPCLYHFFHTNVQRHAPFVA NPFLLLTHIQISTKHPAIVGTTELL LCVGGVQRVLQLAPQRLQLLA QVPALLRLGPGHTLRLQVLLG LGQGCLSLPQGFQQLGPGPTLV FCPLPELLEEDAVGEALATDAD ALQDPVAAKL VQHQPWLQLPG LGKQPPPLPVSQLEVGRAVPLH HPQGALLLLALLEGLQSLLFRV HSPFLHDTFRHRPVPASLQLN SFEQLCITTPQKLQQLFNHTMF VSPPAVNVQANPAGLLALLDEE CWFPKATDKSFVEKVAQEQQG HPKFQ\RPRLRDQADFSVLHY AGKVDYKANEWLMKNMDPLN DNVAALLHQSTDRLTAEIWKD VEGIVGLEQVSSLGDGPPGGRP RRGMFRTVGQLYKESLSRLMA TLSNTNPSFVRCIVPNHEKRAG KLEPRLVLDQLRCNGVLEGIRI CRQGFNRLFQEFRQ
9844	40212	A	9905	2	480	VGCMGCSKGPWRQAFQVDVH VSDLALPQCRLQTGMRGAFGK PQGTVARVHIGQVIMSIRTKLQ NKEHVIEALRRAKFKFPGRQKV CSAAAPFSLCPRPPDSVLSIAP *IHISKKWGFTKFNADFEDMV AEKRLIPDGCGVKYIPSRGPLD KWALHS
9845	40213	A	9906	1	485	SDEYDQLCSEALVGAQICAKK YIVKCCGKNGFHIRVRLHPFHV ICINRMLACAGTDRLQTGMGG AIGKPQGTVARILIGQVIMSIRT KLQNEHVIEALRRAKFKFPGR QKIHISKKWGFTKFNADFEDM VAEKRLIPDGCGVKYIPSRGPL DKWALHS
9846	40214	A	9907	198	452	DYYLEGLINHIVHHDHFLNLQN HSSNLPVAEICYR*RYRKKVQQ RIIIAKDYTTLEFSNR*LFN

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9847	40215	A	9908	2	1968	SYLHCKWATMEELEKDPRIAQ KIKRFRNKQAQMKHIFTEPDED LFNPDYVEVDRILEVAHTKDAE TGEEVTHYLVKWCSLPYEEST WELEEDVDPKVKFEFESLQVLP EIKHVERPASDSWQKLEKSREY KNSNQLREYQLEGMNWLLFN WYNRKNCILADEMGLGKTIQSI TFLSEIFLRGIHGPFLIAPLSTIT NWEREFRTWTEMNAIVYHGSQ ISRQMIQQYEMVYRDAQGNPL SGVFKFHVVITTFEMILADCP ELKKIHWSCVIIIDEAHLKNRNCK LLEGLKLMALAHKVLTLTGTP LQNSVEELFSLNLFLEPSQFP SETAFLEEFGLKTEEQVKKLQ SILKPMMLRRLKDDVEKNLAP KQETIEVELTNIQKKYYRAI LEKNFSFLTCKGANQHNM PNLINTMMELRKC CNHPYLINGAEEKILED FRKTHSPDAPDFQLQG\MIQA\AGKL VLIDKLLPKLIAGGHKVLIFS QMRVCLDILEDYLIQRRYTY ERIDGRVRGNLRQAAIDRF CKPDSDFVFLCTRAGGLG INLTAADTCIIFDSDWNPQ NDLQVPEGRIQKVWEQMSW PRAQPQDNAAAACLQDFGS QLGVQSEETGPFHNRQK QDSGNSHTAPRGRESFIKPP SSRDLLPLKIQKEGPATN YNS
9848	40216	C	9909	223	402	

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9849	40217	A	9910	1	1710	MFEKAARQEWIQVAKSVTRVAMSSYTFQKNPDLISVGEDVEKKLELSYAAVTMAWGQYGDYGYPYQQYHDYSDDGWVNLNRQGFSYQCPQGQVIVAVRSIFSKEADSVSRASATGPD SGQFFLLERVGTCKTTAEAQQRDDPYLVRTVEGLSRTVEGVGRGLTQAAAGEGAGAVEAAW/NSLCGPFSSTPMASDEETEAIRGHETRPDDTAKNSGAIQQHSQCSWPLYY/RAPHSVKRYQTCSNGLVAGFQSRYFESVLDREWQFYCCRYSKRCPYSCW/LSLAADQTLMTPGVGEAPRKCSSF RKGNRTIEPALTGPKSPTYSVGMP SLKLRPNDSHPSAVLLLPNFWLTTEYPGHYGEEMDMISYNYDYYIRGATTTFSAVERKEERRERKGIGDKKHTPTVLVWAAIPHYLRLGNLRTIEIYFHSSGSWKVQDQVDPEEPPARQNHDRVPCHTTPPLGGQEGDSQPVMRAKDHYELEKQKALGQVEDEEDLCQQQRLPEQTYGSEEAPQEAKKNLGSPEPNSQAGA QKPI SMATNRAVFDVTCNFSPHWLQCLQSRSLSPEDPGL
9850	40218	B	9911	101	1237	
9851	40219	A	9912	1	622	NLSDRHRGSHLESQHFQRLKQEDLLSPRIQDQPGQHWETLSHINIVVIGHVDSGKSTTTGHLIYKCGIDKRTIEKFEKEAAEMGKGSFKYAWVLDKLKAER\ERGITIDISLWKFETSKYYVTIIDAPGHRDFIKNMITG\TSQADCAVLIVAAGVGEFEAGISK\NGQTRHALPG/YSQKRYEEIVKEVSTYIKKIGYTPDTVACVP
9852	40220	A	9913	1	762	VVQTQISKTADELISYWGTSFPPFAASLTLYELEYCITIDISLWKFETSKYYATVIDAPGHRDFIKNMITGTSQADCAVLIFAAGVGEFEAVTFAPVNVTTVEKSVEMHH EVLSEALPGDNVDFDVKNVSVKEVHHGNVAGQISAGCAPVLDCHMAHIACKFAKLKKKTGSTSGKKLEDGPTFLKSGDAAIVDMVPGKPMCVESFSVYPPLSRFAVCDMRQTVAVGVIEAMDKMAA\GAGKVTMSAQKAHNAK

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9853	40221	A	9914	1	618	MVQARPGAHPTLLPGPTAAWV SGFSGGGSDDL TGAREAQERGR WSPTESSASVSPVAKVSKFTLS SELEGGDYPKERERTGGGPGRP PDWTPHGTGA\ LQSPHPRTAPA PHPTPCGRPRDAGQSPGAPA WSPRVHRPTPSLLPPRRWTAAA LWAAWQRPLPASQPGRGTSPG NPGPGRTPPSPQEVGSPGHIHIS LRTGFPPTL
9854	40222	C	9915	3	406	
9855	40223	A	9916	1379	2096	NGGGCGAARGGAAPGEGTRRG ACWATRGLPGTGRSAAAPARR GERQQLAMDVFLMIRRHKTTF TDAKESSTVFR/ELKRIRRGQSS KRPPDEQRL\YK\DDQLLD\DG\ KTLGECGFVTSQNRHRPQAPAT VGSGLPASSAASSTDDTFEALCI EPFSS\PEL\PDVDGRPQGFGE SAQLNKAVQVETPQEGPIFPQL KGDGLSLPGCCLFFPPLPGMGP TPCGLLLGLVLGSSCAVLSPRS
9856	40224	A	9917	1	695	MAHAGRTGYDNREIVMKYIHY KLSQRGYEWDA GDVGAAPPG AAPAPGIFSSQPGHTPHPAASRD PVARTSPLQTPAAPGAAAGPAL SPVPPVVHLALRQAGDDFSRRY RGDFAEMSSQLHLTPFTARGRF ATVVEELFRDGSVNREMSPL\V DNIALWMTEYLNRLHTWIQD NGGWPWDFLIGATTPVTIPYLP YHSTEECQLINVKGTAEFKIPFA KPDEMIQAKIIDGC
9857	40225	A	9918	3	422	CSLKNWREVLALLLTYSGTEKF PELC\DLMEKVMVLNRSLEQLR GPH/GGSAVLGQQSPFPFPRIV VGATLHSKETSSYRLGSQPSHQ VPTSPRPRVFTPQSSPAMPLAP SHSPYQGPRTQNISDYRAPGP QAIQPLPL
9858	40226	A	9919	1	849	

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9859	40227	A	9920	3	868	NSSPPFPFPRIVVGATLHSKETS SYRLGSQPSHQVPTSPRPRVFT PQSSPAMPLAPSHSPYQGPRT QNISDYRAPGPQAIQPLPLSPGV RPGPQDSWKEAPAPRGNLQRN KLPETFMPPAPITGPS/IM/RPHP* ATRDSSLTAPLSPV*VMLPQEF QENS\PAGDKDNVFP SLGKPPSP PCVQVMVDGPHSSR/PCAEGD WVQVPGVLTAEKGRLLISPTLL *WEQDCESLGTSP*GSHEKDS LPLWPFSLLL YQQLQHL PPEKM ERKELPPEHQSLKSSFEALLQRC
9860	40228	A	9921	1	307	MKLKELERPAVQAWSPASQYP LYLATGTSAQQLDSSFSTNGTL EIFEVD FRDPSLDLKH RGVLSA LSRFHKL VWGSFGSGLLESSGV IVGGGDNGMLILYNVTHILSSG KEPVIAQKQKHTGAVRALDLN PFQPPEDIKALSWNRQAQHILSS AHPSGKAVVWDLRKN EPIIKVS DHSNRMHCSGLAWHPDIATQL VLCSEDDRLPVIQLWDLRFASS PLKVLESHSRGILSVWSQADA ELLLTS AKDSQILCRNLGSSEPC PRLVFISQVTTESEFLMRSAELQ EALGSGNLLNYCQNKSSQALL QSEKMLWQFLKVTLEQDSRMK FLKLLGYSKDELQKKVATWLK SDVGLGESPPQKGNDLNSDRQ QAFCSQASKHTTKEASASSAFF DELVPQNMTPWEIPITKDIDGLL SQALLLGELGPAVELCLKEERF ADAIILAQAGGTDLLKQTQERY LAKKKTKISSLLACVVQKNWK DVVCTCSLKNWREALALLTY SGTEKFPELCDMLGTRMEQEGS RALTSEARLCYVCSGSVERLVE CWAKCHQALSPMALQDLMEK VMVLNRSLEQLRGPHGVSPGP ATTYRV TQYANLLAAQGLAT AMSFLPRDCA/PAARDIYAPSTN YCSSYEPHP*ATRDSSLTAPCLQ SASAPAT*EDGKEGAAPRASVL EEQL*GASPTLLPVCN*LKDKK

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9861	40229	A	9922	3	2751	SVSWSQADAELLTSAKDSQIL CRNLGSSEVVYKLPTQSSWCFD VQWCPRDPSVFSAASFNGWISL YSVMGRSWEVQHMRQADKISS SFSKGQPLPPLQVPEQVAQAPLI PPLKKPPKWIRRP TGVSFAFGG KLVTFLPSTPAHLVPQPCPRL VFISQVTTESEFLMRS AELQEAL GSGNLLNYCQNK SQALLQSE KMLWQFLKVTLEQDSRMKFLK LLGYSKDELQKKVATWLKSDV GLGESPPQKGNLNS
9862	40230	A	9923	363	543	
9863	40231	A	9924	2	737	EAETEFVRCIKHMFTHIVFQ LFHLLTFQFDCTNTLNDQLEK VTVQMEPSES EYVLS CIPAPSLP YNQPGICYTLVRLPDDDPTAVA GSFCTMKFTVRDCDPNTGVDPD EDGNDDEYVLEDLEVTVSDHIQ KVLKPNFAAAWEE\VGDT\FEK EETFALSSTKTLEEA VN\NIITFL GMQPCERSDKVPENQD\SHSL YLAGIFRGGYDL\LRARLALA DGVTMQVTVRCKHRTVPDIILA
9864	40232	A	9925	327	464	GSPTTRPAKPLTLSSGHLRSRPR WAEGPQYHLP*ISAPRAKLGVM
9865	40233	A	9926	2	1179	WQPDIGPYGGLLN VVVDGLFII GWMYLPHPDPHVDDPMRFKPL FRIHLMERKAATVECMYGHKG PHHGHIIQIVKKDEFSTKCNQTD HHRMSGGRQEEFRTWLREEWG RTLEDIFHEHMQELILMKFIYTS QYDNCLTYRRIYLPSPRPDDLK PGLFKGTYGSHGLEIVMLSFHG RRARGTKITGDPNIPAGQQTVEI DLRHRIQLPDLENQRNFNELSRI VLEVRERV RQEQQEGGHEAGE GRGRQGPRESQPSAQPRAEAP SKGPDGTPGEDGGEPDAAVAA AEQPAQCQGQPFVLPVGVSSR NEDYPRTCRMCFYGTGLIAGH GFTSPERTPGVFILFDEDRFGFV WLELKSFSLSYRVQATFRNAD APSPQAFDEMLKNIQSLTS
9866	40234	A	9927	287	537	TGKFPS C/CLLSFYGTGLIAGHG FTSPERTPGVFILFDEDRFGFV LELKSFSLSYRVQATFRNADAP SPQAFDEMLKNIQSLTS
9867	40235	A	9928	1	3651	

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9868	40236	A	9929	1	3720	MEEMFGGGAADDYGKAGPPE DEGDPKAGAGPPPGPPAYDPY GPYCPGRASGAGPETPGLGLDP NKPELPSTVNAEPLGLIQSGPH QAAPPPPPPPPPAPASEPKGG LTSPICSTKPKKLLKTSSFHLL RRRDPFFQTPKKLYAQEYEFEA DEDKADVPADIRLNPRRLPDLV SSCRSRPALSPLGDIDFCPPNPG PDGPRRRGRKPTKAKRDGPPRP RGRPRIRPLEVPTTAGPASASTP TDGAKKPRGRG
9869	40237	A	9930	503	739	QGWRRRRPISKISESRNMQNFL HALSNCLPEGGA*DRCSSRLEE GRQLPPLLGLSLQVAKKSGGTG WMVRCSEQCLFLG
9870	40238	A	9931	1	1148	MGGKGDDSWVISATPLGKCCA AVPLGGNPTLRVDQLWRKQRP PLQQCTASAPGGWVTSLMGAG THAANTGFQLVWSSKRPMYKV LQAFFGVQRSRSAMNGQGFS KCVGMPITHTRQQADLGRGPE ETEDKKQQSRGSELRSEGEPP EPYLLRTSK\VKDKERILKAARE MKQIIYNGAPIHLAADFSVETL QAKKEWCDIFKVLKKKTFYPK MVLTAGPSHPQSIVSVSFTGLA NAASLTMSPDHLHGQPGFAGLSS VAAVDWQWALLRSPPPQGRM GLLPICQATQGPQLCVASPSDK EGFLLLFGKEIARLTNKGGARL YKCDIVQGVCCEDPLATLDWE LRPDLEQGERPTPERHKPFLLG KSFSAPLIKICRYEQMF
9871	40239	A	9932	333	689	NSFLTCLPPVSI*TDLLQPSAQ WKQLSLARRNVHSTRLAGARR CAASGSPVAAHCHYHPVSGHSR LLHGCQHGHWSWQVPEVPPG SPFSLAPVWKRRTALPAILHL PVEHYYPEL

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9872	40240	A	9933	84	933	PLTSPEAFSNRCGLRGPPPCVP VGRLQFNDVSSLGICLPDSSCC SSWHGPHSLHH/HVQACKASIR ASGTAASANCAFSRYHVHCSIA FQIKVLHNLIVLTVIIPAAEHMA WGPGLAQPNPPHRASGHSSWGP EVGPKLSTTAILVGTYPPVPPV GLETGPPSLFQPLPISTHTAWNT ENCPANATVIAHPTLAAQGTKN PPTLLVHHCHYQHLSLKDDGT RRENSLKLGEKVLQTEGIQK GMDPTMEYATNYWKKLQLWK RRQTALPAILHLPVEHYYPEL
9873	40241	A	9934	1	627	MESLDTETSTWGECHRKIRGM VPQVKELAEIEEEAPPDGA YRREKQKYEALRKQQSKGTS REDQQIIKNLPCTNHCIWQSTH EHIPALSDLSGKRAKQVIPVK GEHYERTLALLNQFKSKLTQAI AETPENDIPETEVEDDEGWMS HVLQFEGKSRKSGKVPSMQDS DTFEIYDPRNP/LVNKRREGKK AKSLMREKKERRLK
9874	40242	A	9935	1	371	PMRPAFTRVEMARVLMERNQY KERLMELQEAVRWTE MIRASR EHPSVQEKKKSTIWQFFSRLFSS SSSPLRPKRPYPSVNIHYKSPT GCSVAAGFSPPPCHLHCDVCPL PRLFPQDLEVTGP
9875	40243	A	9936	2	186	
9876	40244	C	9937	109	408	
9877	40245	C	9938	161	341	
9878	40246	C	9939	303	439	
9879	40247	C	9940	201	419	
9880	40248	C	9941	122	307	
9881	40249	A	9942	3	80	YNPAPYKEKTITL/PCPRKLGPP QGS/S*NGPPSSSSSSQCSVSFND PHLPEGQVQAAR*WAPPGIL
9882	40250	C	9943	249	427	
9883	40251	A	9944	90	244	TVVPHDPCGTDAHVCETHMD MCPSHSVMLCGWLTFAEFRGA MGEGGRESFLLNQASFCY*CSQ AGFSSNLWRCRAGRNTADE LWCHMTLVAQMPTYVKHTWT CVPATVLCVAGSPLLSSGVQW GREGGKASS
9884	40252	C	9945	4	204	
9885	40253	C	9946	340	497	
9886	40254	C	9947	158	184	

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9887	40255	A	9948	200	386	LFYTME*IMAFLLSSSSSPGRPF* RILGGAKVYAGMQRYSFFLIGS RIITYLGIFGRELYFC
9888	40256	B	9949	47	622	
9889	40257	A	9950	1	630	
9890	40258	A	9951	1	782	
9891	40259	A	9952	1	677	MHGLGRWDACPQDEMSESGQ SSAAATPSTTGTKSNTPTSSVPS AAVTPLNESLQPLGDYGVGSK NSKRAREKRDSRNMEVQVTQE MRNVSIGMGSSDEWSDVQDIID STPELDMCPETRLDRTGSSPTQ GIVNKAFGINTDSLHELSTAG\ S*VIGDVDEGADLLGNDRKK VYTSVQTRPPQACTFSVRLVES THAELVGIEGRLYHKIHLRVH GAVGYSVLT
9892	40260	C	9953	202	366	
9893	40261	A	9954	1	2429	MKEGGWGCDPVGRGVTSGHV LQMKLLPFRQKKAHIMEIQLNG GTVAEKVAWAQARLEKQVPV HSVFSQSEVIDVIAVTKGRGVK GVTSRWHTKKLPRKTHKGLRK VACIGAWHPARVGC SIARAGQ KGYHHRTELNKKIFRIGRGPHM EDGKLVKNNASTSYDVTAKSIT PLGGFPHYGEVNNDFVMLKGC IAGTKKRVITLRKSLLVHHSRQ AVENIELKFIDTTSKFGHGRFQT AQEKRAF MADGLSLSPAASDS DYPPGEMFLDSVNPEDPGAD GVLAGITLVGCATRCNVPRSNC SSRGDTPVLDKGQGEVATIANG KVNPSQSTEEATEATEVPDPGP SEPETATLRPGPLTEHVFTDPAP TPSSGPQPGSENGPEPDSSSTRP EPEPSGDPTGAGSSAAPT MWLG AQNGWLYVHSAVANWKKCLH SIKLKDSVLSLVHVKGRLVAL ADGTLAIFHRGEDGQWDLSNY HLM DLGHPHHSIRCMAV VYDR VWCGYKNKVHVIQPKTMQIEA SAGQGPGEGRLL LASSSPASSI RKSTRPTH DST\KSFDAHPRES QVRQLAWIGDGVVVSIRLDST LRLYHAHTHQHLQDV DIEPYVS KMLGTGKLGFSFVRITALLVAG SRLWVG TGNGVVISIPLTETVV LHRGQLLGLRANKTSPTS GEGA RPGGIIHVYGGDSSDRAASSFIP

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9894	40262	A	9955	9	452	KIKVLSKNSQVTDFFVPVPTLLND GQCLGYNSTPYKEKAITL/PCPR KLGPPQGSFKTA/APSSSSPSFNF FNGSQNSVTNFWSSCFH*KVLI LKTNNLKLPHAKKKTKVV/LQ NILLSF*RFYDALLSLTSLLLN LNGQLKQTVMRPFFHH
9895	40263	A	9956	1	3223	ATATPSTTGTSNTPTSSVPSAA VTPLNESLQPLGDYGVVSKNSK RAREKRDSR\NMEVQVTQEMR NVSIGMGSSDEWSDVQDIIDST PELDMCPETRLDRTGSSPTQGI VNKAFGINTDSLY\HELSTAGS\ EVIGDVDEGADLLGEFSGMGK EVGNLLENSQLLETKNALNV VKNDLIAKVDQLSGEQEVLRG ELEAAKQAKVKLENRIKELEEE LKRVKSEAIARREPKEEAEDVS SYLCTESDKIPMAQ
9896	40264	B	9957	176	658	
9897	40265	A	9958	2	5671	AGGPCVRSSRELWTILLGRSAL RELSQIEAELNKHWRRLLEGLS YYKPPSPSSAEKVKANKDVASP LKEGLRISKFLGLDEEQSVQLL QCYLQEDYRGTRDSVKTVLQD ERQSQUALILKIADYYYEERTCIL RCVLHLLTYFQDERHPYRVEY ADCVDKLEKELVSKYRQQFEE LYKTEPTWETHGNLMTERQV SRWFVQCLREQSMLLEIIFLYY AYFEMAPSDLLVLTKMFKEQG FGSRQTNRHLVDETMD
9898	40266	A	9959	1	404	MVDQEAIFGCKNRNNSHLEPP VSRLEGGAFVRDLLSPTQYLLA SCPYYQDGSFVIQIPSSNLFMV VVDSSCLCESVAPITMAPIEIRYI LLC\EVHSLPRKPENARECGGA PSLQAQTVLLLLPLLLMLFSR
9899	40267	A	9960	1	1374	
9900	40268	A	9961	102	205	

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9901	40269	A	9962	1	1527	MVPDAAVLAQLAIRARVNRRW PTGLSAPHLCGAACSRCHAAI AKYFGDALPACAKGCDHCQNP TAVRRRLEALERSSSWSKTCIG PSQGNFGDPELYEGGRKGYGG FSRYDEGSGGSGDEGRDEAHK REWNLFYQKQMQLRKGKDPKI EEFVPPDENCPLKEASSRRIPRL TVKAREHCLRLLEEALSSNRQS TRTADEAD\FRAKAVELEHETF RNAKVANLYKASVLKKVADIH RASKDGQPYDMGGSAKSCSAQ AEPPEPNEYDIPPASHVYSLKPK RVGAGFPKGSCPFQTATELMET TRIREQAPQPERGGEHEPPSRPC GLLDEDGSEPLPGPRGEVPGGS AHYGGPSPEKKAKSSSGGSSLA KGRASKKQQLLATAAHKDSQS IARFFCRRVESPALLASAPEAEG ACPSCEGVSGTPDWPQRSTQGR KMEPGDIRLPLPRLRSASGRGQ APARPETRAPLKSSPPLQORTHG KGKRPRFPARRTQRASLRGHA PQIPPS
9902	40270	A	9963	2	99	
9903	40271	A	9964	115	1360	ENGQLHVMNLALDGVRSSLQK PRPFRLFPGFVSVELCMNREDD TARKEKTDHFIFTYTREGNRLRY SAKSLFSLVLGFISDNVDHIDSLI GFPEQIAEKLFSAAEARQKFTEP GAGL\RALQKFTGGLWEVWVL CSLCFLLWKLDPDICCKLGDEHE LLEHLTNEALSRY*PVTTTCR*IV SVLF*RLIQQDYRVMKRGLENL TLLDLSCKFSSKL*IILMLEEWP *RSCSSFSGTGLKVRLLVPSLIFL DSTI*YFACANWEFDHSNCKTE GWADQVLQIFLPCG*CSFSS*FQ VSYPTSRETAESCFRSTLSLVQN MHDEAAQRCEKFPFL*SFLPFI CILKAVRLF*KLQFYKEKAPDC HGPVLKHEAISSQESKSKSRP FEESETEQNNSSQPSKQKYVCL AVEDWDLNSY

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9904	40272	A	9965	3	1026	DNVDHIDSLIGFPEQIAEKLFFA AEARQKFTEPGAGLRALQKFTE AYGSLVLCCLRNRYLVISEK LEEIKSFRELTCLDLSCCKLGDE HELLEHLTNEALSSVTQLHLKD NCLSDAGVRKMTAPVRVMKR GLE\NLTL\DLSCNP\ETGGRA LGYPLFLFRGNLN\CFRDISGDR GSRDIKTL\KHKLQTHIGLVHSK VPLKEFDHSNCKTEGWADQIV LQWERVTAEAVKPRETSEPIAA AQRFGYGKRSRAEAPLK\CPLAD TH\MNSS\EKLQ\FYKEKAP\DCH GP\VLKHEAISKPRSPKSKSKRP FEESETEQNNSSQPSKQKYVCL AVEDWDL\NSY
9905	40273	A	9966	1	289	VKHCLHRPILWDPWKTSGIQQ VLTP*KAMEKLEAILLICSLE AIGLITLPSLSMTQFLQLHVECC YVSPDQTPYFIDVETAMKDEV TVHNPHG
9906	40274	A	9967	1	1413	MVVPPIAELKNLEVLNFLNNQ IEKLPTQISRLQKLKHLNLGFLS PCNSMNRNLNISPQGFGLPALE VLDLTYNLNLNENYLPGNFFYLT TLCALYLSNDNDFEILPPDIGKLT KLQILSNRDNNLISLPKEIRVLT QLKELHIQGNRLTVLPPELGSR GGSGSRFSAETATGGAQNAPPS VLGSAGTIFK\QRRNPSPAALRG GSVAA*PSPAAAKYGKDQREH LPTAAGDGVGWEPTRDIVGS ATAQALSQANAARGRLSTAQA AGSLHVECCYVSPGQTLTYFTDV EIEAMKDESRGISILYKHRHLK VPLDQKLPSKSKGHQPDGYGQH DHKPMQMTSLTRNIATLR
9907	40275	A	9968	1	619	MNRLNISPQGFGLPALEVLDDL TYNNLNLNENYLPGNFFYLTTLCA LYLSNDNDFEILPPDIGKLTQLQI LSNRDNNLISLPKEIRVLTQLKE LHIQGNRLTVLPPELASSSRCGP LSHPYAGKRIPRNAVFKFEQNT\ PWHTPPKAGREMLLDVTGFP EAATSKPPAFLHRRRGRGSWNP RSRSSSLQRTWPWPPGSREAEYPP ASGA

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9908	40276	A	9969	810	1672	GLPSVTMSKSLKKLVEESREKN QPEVDMSDRGISNMLDVNGLF TLSHITQLVLSHNKLT MVPNIA ELKNLEVLNFFNNQIEELPTQIS SLQKLKHLNLGMNRLNTLPRG FGSLPALEVLDLTYNLSENLSL PG\NFFYL\TTL\RALYLSDN\DF EILPPDIG\KL\TKLQILSLRDNDL ISLPKEIGELTQLKELHIQGNRL\ TVVPEL\GNLGF*LGQKQVFK AENNPWVTPIADQFQLGVSHVF EYIRSETYKLYGRHMQANPEP PKKNNDKSKKISRKPLAANNR
9909	40277	C	9970	120	347	
9910	40278	A	9971	2	10018	LCVSPVTAGRPASRLREMEVEQ EQRRRKVEAGRTKLAHFRQRK TKGDSSHSEKKTAKRKSAVD ASVQEEESPVTKEDSALCGGGDI CKSTSCDDTPDGAGGAFAAQP EDCDGEKREDLEQLQKQVND HPPEQCGMFTVSDHPPEQHGM FTVGDHPPEQRMFTVSDHPPE QHGMFTVSDHPPEQRMFTISD HQPEQRMFTVSDHTPEQRGIF TISDHPAEQRMFTKECEQECE LAITDLESGREDEAGLHQ
9911	40279	A	9972	2	5196	APLDGEVELLQQKLREKLDEFN ELAIQKESADRQVLMQEEIQR LEEMNINIRKKVAQLQEEVEKQ KNIVKGLEQDKEVLKKQQMSS LLLASTLQSTLDAGRCPEPPSGS PPEGPEIQLEVTQRALLRRESEV LDLKEQLEKMKGDLESKNEEIL HLNLKLDMQNSQTAVSLRELE EENTSLKVIYTRSSEIEELKATIE NLQENQKRLQKEKAEEIEQLHE VIEKLQHELSLMGPVVHEVSDS QAGSLQSELLC
9912	40280	A	9973	1	8277	GEFGSEKKTALHEKEETLRLQS AQAQPFHQEESLSLQLQKKN HQVQQLKDQVLSLSHEIECRS ELEVQQRRERENREGANLLS MLKADVNLSHSERGAQLDALR RLLGLFGETLRAAVTLRSRIGE RVGLCLDDAGAGLALSTAPAL EETWSDVALPELDRTLSECAEM SSVAEISSHMRESFLMSPESVRE CEQPIRRVFQSLSLAVDGLMEM ALDSSRQLEEARQIHSRFEKEFS FKNEETAQVVRKHQ
9913	40281	A	9974	1	393	

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9914	40282	A	9975	2	153	
9915	40283	A	9976	184	790	KFTKHISMNQEDLDPDSTTDVG DVTNTEELIRECEEMWKDME ECQNKLSLIGTETLTDSNAQLSL LIMQVKCLTAELSQQWQKKTPE TIPLTEDVLITLGKEEFQK\RGQ DLEMVLSTKESKNEKLKEDLER EQRWLDEQQQIMESLNVLHSE LKNKVETFSERIFNELKTKML NIKEYKEKLLSTLGEFLEDHFPL
9916	40284	C	9977	23	217	
9917	40285	A	9978	25	100	
9918	40286	A	9979	1	2850	
9919	40287	A	9980	108	1132	HPHQVETSRDVAGEQSHAVAF MSTGISQADVCRLEWFSAPNLK GRPRKKKPCPQRRDSFSGVKDS NNNSDGKAVAKVKCEARSALT KPKNNHNCKKVSNEEKPKVAI GEEGRADEQAFLVALYKY\MK ERKTRIERIPYLGFNQINLWTMF QAAQKLGGETITARRQWKHI YDELGGNPGSTSAATCTRRHYE RLILPYERFIKGEEDK\PLPPIKP RKQENSSQENENKTKVFGTKRI KHEIPKSKKEKENAPKPQDAAE VSSEQEKEQETLISQKSIPEPLPA ADMKKKIEGYQEFSAPKPLASR VDPEKDNETDQGSNSEKVAEE AGEKGPTPPLPSAPL
9920	40288	B	9981	177	3543	
9921	40289	B	9982	63	374	

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9922	40290	A	9983	1	2023	MGGGSWAPTGLCPLQSLAMS PEKRKLAAQEGQFTEPRPEEP KEKLHTLEEFSEFFRAPEKDM VSM AVLPLARARGHLWAYSCE PLRQPLLKR VHANVDLWDIAC QIFVDILPHQPACTSAVVGVS YPQSVSAWSCPSTVLLDSHTIL RYMGDYP SRQAWPTLELTDQIF TLALQH PALQDEVYQCILKHLT HNSDRHSEERG WQLLWLCTGL FPPSKG L LPH AQKFIDTRRGKLL APDCSRRIQKVLRTGPRKQPPH HVEVEAAEQNVSRICHKIYFPN DTSEM LEVVANTRVRDVCDSI ATRLQLASWEGCSLFIKISDKVI SQKEG DFFFD SLREVSDWVKK NKPQKEGEEASVELGEGVAGW VEGALAASVRPMPIHPSIRSRVS LGC GNNQALGPGGAPVTLPYQ VYFMRKLWLNISPGKDVNADT ILHYHQELPKYL RGFHKCSRED AIHLAGLIYKAQFNND RSQLAS VPKILRELVPENLTRLMSSEEW KKSILLAYDKHKDKTV EEA KV AFLKWICRWPTFGSAFF/EGEG KPCPTPGPPTQAASAQPSRPS VNQHTSWQTSEPSYPDVILIAIN RHGVLLIHP\KTKDLLTTPFTK ISSWSSGSTYFHMALGSLGRGS RLLSET\SLGYKMDDLTSYVQ QLLSAMNKQRGSKAPALAST

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9923	40291	A	9984	428	2502	VSKEIVYNKLLPYAERLDAESD LQLAQIKCNLGRAVQLQELWP GGLFWTRKLS/TRAGPLALSSLE LSPSGDPRVVTEPVKYSSRPPCH FPTGLPGSLPSLYVLRICFSRSV RVVVFPPGGPWVAQGP RPGR ETWGFTMLLRYIRLYGRKFSKE DHVLFIKLLYELVSIPKLEISMM QGFARLLINLLKYFPADATAEM LEEWRPLMCPFDVTMQKAITY FEIFLPTSLPPELHHKGFKLWFD ELIGLWVSQNLQPQWEGQLVN LFARLATDNIGYIDWDPYVPKG GPSKLVQKHLA GLFNSITSFYH PSNNGRWLNKLMKLLQRLPNS VVRRLHRERYKKPSWLT PVPDS HKLTDQDVTDFVQCIIQPVLLA MFSKTGSLEAAQALQNLALMR PELVIPPVLERTYPALETLTPEH QLTATLSCVIGVARSLVSGGRW FPEGPTHMLPLLMRALPGVDPN DFSKCMITFQFIATFSTLVPLVD CSSVLQERNDLTEVERELCSAT AEFEDFVLQFMDRCFGLIESSTL EQTREETETEKMT HLESVELG LSSTFSTILTQCSKEIFMVALQK VFNFTSHIFETRVAGRMVADM CRAAVKDWGKPGDLWN LGIQ WHVPSSEEVSFAYLLDSFLQP ELVKLQHCGDGKLEMSRDDIL QSLTIVHNC LIGSGNLLPPLKGE
9924	40292	A	9985	2	5396	AESDLQLAQIKCNLGRAVQLQE LWPGGLFWTRKLS TYIRLYGR KFSKEDHVLFIKLLYELVSIPKL EISMMQGFARLLINLLKKKELL SRADLELPWRPLYDMVERILYS KTEHLGLNWF PNSVENILKTLV KSCRPFYFPADATAEMLEEWRP LMCPFDVTMQKAITYFEIFLPTS LPPELHHKGFKLWFDELIGLWV SVQNLQPQWEGQLVNL FARLAT DNIGYIDWDPYVPKIFTRILRSL NLPVGSSQVLVPR
9925	40293	A	9986	1	477	VREFPGRRRFRGCCGALRPRYKR LVDNIFPEDP\GYVCIAMEALDQ LLMACHCQSINLFVESFLKMVA KLESEKSNLQILGTNSFVKFA NIEEDTPSYHRSYDFFVSRFSEM CHSSHDDLEIKTKIRMSGIKSLQ GVVRKTVNDELQANIWDPQH

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9926	40294	A	9987	I	2371	AGGARLRPARGRPPRLPPRPG PCRPPVPAPTVERNERRAPPRAG WERRSDAGLSRGARPAEMYGV CGCCGALRPYKRLVDNIFPED PEDGLVKTNMEKLTIFYALSAPE KLDRIAYLSERLIRDVGRHRY GYVCIAMEALDQLLMACHCQS INLFVESFLKMOVAKLLESEKPN LQILGTNSFVKFANIEEDTPSYH RSYDFFVSRFSEMCHSSHDDLEI KTKIRMSGIKGLQGVVRKTVN DELQANIWDPPQHMDKIVPSLLF NLQHVVEEAESRSPSLQAPEKE KESPAELAERCLRELLGRAAFG NIKNAIKPVLHLDNHSLWEPK VFAIRCFKIIMYSIQPQSHSLVIQ QLLGHLDAANSRSAATVRAGIVE VLSEAAVIAATGSVGPVLEMF NTLLRQLRLSIDYALTGSYDGA VSLGTKIIEHEERMVFQEAVIKT VGSFASTLPTYQRSEVILFIMSK VPRPSLHQA VDTGRTGENRNR LTQIMLLKSLQVSTGFQCNM MSALPSNFLDRLLSTALMEDAE IRLFVLEILISFIDRHGNNRHKFSTI STLSDISVLKLVKDKCSRQDTV FMKKHSQQLYRHIYLSCKEETN VQKHYEALYGLLALISIELANE EVVVDLIRLVLA VQDVAQVNE ENLPVYNRCALYALGAAYLNLI SQLTTVPAFCQHIHEVIETRKKE APYMLPEDVFVERPRLSQNLDG
9927	40295	A	9988	I	662	IPGSTISWSPAAARGLSVCRCCR LHPASAMD LFGDLPEPERSRP AAGKEAQKGPLL FDDLPPASST DSG/SSLQALPGSGGPLLFDDL PASSGDSGLATSISQMVKTEG KGAKRKTSEEEKNGSEELVEK KVCKASSVIFGLKGYVAERKGE REEMQDAHVILNDITEECRPPSS LITRVSYFAVFDGHGGIRASKF AAQNLHQNLIRKFPKGDVISVE

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9928	40296	A	9989	3	1145	KEAQKGPLLFDLPPASSTDSA VAALGTTSPVTLWFLQTRRGS KIWRNSLDYQSKVGAEPWCHE RQQKADRFLGKRGRVPASSVIF GLKGYVAERKGEREEMQDAH VILNDITEECRPPSSLITRVSYFA VFDGHGGIRASKFAAQNLHQ LVRKFPKGDVIS\VEKTVKRCLL DTFKHTDEEFLKQASSQKPAW KDGSTATCVLAVDNILYIANLG DSRAILCRYNEESQKHAALSLS KEHNPTQYEERMRIQKAGGNV RDGRVLGVLEVSRSIGDGQYK RCGCHLCAPTSRRC\QLTP\NDR FI/LVWPCDGLFKVFTPEEAVN FILASCLEDEKIQTREKSAADV RLRSSPATRLANKAVAAGARP DNVTV\MVVRI\GH
9929	40297	A	9990	2	419	
9930	40298	A	9991	2	1842	CLRLIAAAPPI/AIEPATTSSLALF LLLQRDQSSRTRGLPEEKEEVT MDTSENRPENDVPEPPMPIADQ VSNDDRPEGSVEDEEKESLPL KSFKRKISVVSATKGVPAGNSD TEGGQPGRKRRWGASTATTQK KPSISITTESLKSILPIDIKPLAGQE AVVDLHADDSEDETERNGD DGTHDKGLKICRTVTQVVP GQENGQREEEEEKEPEAEPPV PPQVSVEVALPPPAEHEVKKVT LGDTLTRRSISQKSGVSITIDD PVRTAQVPSPPRGKISNIVHISN LVRPFTLGQLKELLGRTGTLVE EAFWIDKIKSHCFVYSTVEEA VATRTALHGVKWPQSNPKFLC ADYAEQDELHYHGRLLVDRPS ETKTEEQGIPRPLHPPPPPVQPP QHPRAEQREQERAVREQWAER EREMERRERTRSEREWRDKV REGPRSRSRDRRRKERAKSK EKKSEKKEKAQEPPAKLLDDL FRKTKAAPCIYWLPLTDSQIVQ KEAERAERAKERERERERERER EEQKEREKEAERERNRQLEREK RREHSRERDRERERERERDRGD RDRDRERDRERGRERDRRDTK RHSRSRSRSTPVRDRGGRR
9931	40299	A	9992	1400	2959	
9932	40300	C	9993	169	430	

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9933	40301	A	9994	2	199	STSR/KMTELEEVTLNGKPLQA LRVTDLKAALQRLAKSGQK SALVKRLKGVRSRRCWGVGGE RTR
9934	40302	A	9995	1	4033	MWRRKHPRTSGGTRGVLSGNR GVEYGSGRGHLGTFEGRWRKL PKMPEAVGTDPTSRKMAELEE VTLDGKPLQALRVTDLKAAL QRLAKSGQKSALVKRLKGAL MLNLQKHSTPHAAFQPNISQIG EEMSQNSFIKQYLEKQQELLRQ RLEREAREAAELEEASAEESEDE MIHPEGVASLLPPDFQSSLERPE LELSRHSPRKSSSISEEKGDSDD EKPRKGERRSSRVQRARAALKS EGSQPAEEEEEDQETP
9935	40303	A	9996	3	6305	ELEEVTLDGKPLQALRVTDLK AALEQRLAKSGQKSALVKRL KGALMLNLQKHSA/PHAAFQPN SQIGEEMSQNSFIKQYLEKQQ ELL/SSRLEREAREAAELEGKSS SISEEKGDSDDDKPRKGERRSS RVQRARAALAEESQPAEEEE DQETPSRNLVRADRNLKTEEE EEEEEEEEEDDEEEEGDDEGQK SREAPILKEFKEEGEEIPRVKPE EMMDERPKTRSQEQEVLERGG RFTRSQEEARKSHL
9936	40304	B	9997	99	332	
9937	40305	A	9998	3	236	YIFTILNTLQGVFILLFGCLMDR KIQEALRKRFCAQAPS/SHHLP GELLPSDPQLCIQEHVRRHSMA LLRGHGHSQKL
9938	40306	B	9999	1	3099	
9939	40307	A	10000	355	858	RASSAAWGSPSRKTSASSSAFSSS CWSSS*QS*SYSSSSLS\HGQGE RERQEGPEGRPAAVPHREQRG AEERLEHHPG*DAMLWCH*LH RLVPSAGGEHGSRLPHGELPG LRAQRHHAFVENGLL*KGEDV VR*Q*ARAGHGDDVHPHADP GHGLLDPLPAHPPDW

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9940	40308	A	10001	3	1478	GRALTSRRRACQGASEAAGSPA QVTTSTGHHQHRSHQHRSPPA QVTTSTGHHQHRSPAQATTSTG HHQHRPPPAQVTTSTGHHQHR SPAQATTSTGHHQHRSHHTGH HQHRS/HTSTGHHQHRSPAQAT TSTGHHQHRPPPAQVTTSTGHH QH\GHQHRPPPA/HGHHQHSSPP A/HGHHQHRPPPA/HGHHQH\G HHQHSSPPA/HGHHQHR\HHQ\P GHHQHRSP/HSTAHHQH\GHHQ HSSPPA/HGHHQH\GHQH\GHQH SSPYQH\GHQHHRPPPA/HGHH QHRSH\HTAHHQHRSHQH\GH Q\PGHHQHRSPAQATTSTGHTS TGHHQHRP/HTSTGHH\HTGHH QHRSHQHRSPPAQATTSTAH QHSS/HTSTGHHQHRSP/HSTGH HQHSSPPA/HGHHQHSSPPAQA TTSTGHHQHRESPAVAAAADPS ALSAARRGSPGAAAPQSRGTR GGGAPAKWWGSALGLGWAGR ARARLGRPLRPILGAMPPAPRT PRERREHGEVE
9941	40309	A	10002	5	341	PPRRRGQKRRQK/REEGERERG ERKRPRDRKEERKG/RRTKRQG GTETRESRPNGDGPQAKRKKQ TAGQREEREQEQRSSRQRGAA ERERGRETTHITCLLVPCWWEP NGRLCL
9942	40310	A	10003	1	582	MLAQRGGRSVVQCIASVSKLSV TQRSFVTLIMDEEALGNCGGSS GSQTCEKAVCIHNLPLTSHAF QSGFPPHQSPASLPKMOVSDAQ TARLSLESMRELGFHISESAGFP APVSGYEHNSRPGVMPSGTS HWKQRSQKVEDNRTEMVKGIQ GDTVKHQQHLPRINGN*LAYM TAKSRTWLPVQQDPGPQTI
9943	40311	A	10004	1	332	MEYYAAIKNDEFMSFVGTWM KLETIILSKLSQGQKTKHHIFSLI EAQAQVSPPPYPAPQELTQPL LQQPRAPEAPAQ/PPGSLLTAT VRLSASPGPLIFDQLLPRCGF

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9944	40312	A	10005	1	1108	MLAQRGGRSVVQCIASVSKLSV TQRSFVTLIMDEEALGNCGGSS GSQTCEKAVCIHNLPLTSHAF QSGFPPHQSPASLPKMVSDAQ TARLSLESMRELGFHISEAGFP APVSGYEHSNPSLSTTNLSGFSR RRQPPVSPLTLSPGPEAHQGFSR QLSSTSPLAPYPTSQMVSSDRS QLSFLPTEAQAQVSPPPYPAPQ ELTQPLLQQPRAPEAPAQQPQA ASSLPQSDFQLLPAQGSSLTNFF PDVGFDDQSMRPGPCLSSGTAS GATGSRRELQDSFHLRPSYSNC GSLPNTILPEDSSTSLFKDLNSA LAGLPEVSLDVDTPFPLEEELQI EPLSLDGRVHMLSDSSMGLLDP SVEETFADRL
9945	40313	A	10006	1	691	MRERARPPRGCLAPPLPPG/E/S GADGQPAPRGRGTAGG/ELAA AGCGARAAMHRGAVPSAEPVP ASP/DGRWQWAGEGRPCNAAG GSRT/GAGCGWPAPAGWGPAP SSAASCPASGGATHRGASAAPG GGGGGRAP/GPDALEQRRAGAP PNAPGTPGSPEESSLRMRRESA AGAPAVGMAAATSLGQALGPR VPRSPYRTAVVLSSRSFAFGYFSL ITLARYTLGCLSHSDITLFEC
9946	40314	A	10007	1	1065	MADKRAGTPEAAARPPGLAR EGDARTVPAARAREAGGRGSL HPAAGPGTAFPSPGRGEAATA TTPSLENGRVRDEAPETCGAEG LGTRAGASEKAEDANKEEGAIF KKEPAEEVEKQGEQEEKQEV AEAQEGPR/PPEPWCPN/C/MDP LEAIQWEAEAVSAQADRAYLP LERRFGRMHRLYLARRSFIIQNI PGFWVTAFLNHPQLSAMISPRD EDMLCYLMNLEVRELHRSRTG CKFKFRFWSNPYFQNKVIVKEY ECRASGRVVSIAIRIRWHWGQE PPALVHRNRDTRVSFFSWFSQH SLPEADRVAQIIKDDLWPNPLQ YYLLGDRPCRARGGLARWPTE TPSRPYGFQSG
9947	40315	A	10008	2	433	
9948	40316	A	10009	125	289	TRKSGCLKIRFHVFLFLYRNPG MDVADAYVTFVRHSQDVLRD KVNE\EMY\ERLF
9949	40317	A	10010	1	774	
9950	40318	A	10011	1	1749	

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9951	40319	A	10012	1	1175	MFASCYMRNIPKRVIEFGTCLW RTCKNCLSSLEFKMPFPPHPRSV TYNLKQERCRLSLDASLSCMLS IEDSQIPNTRLECKGLSRCTSV ASTCPLVTFSCFLFSPKMEQYS KDDSEKTLKGWFSFGQVFVLD EYCARNGVRGCHRLCYLRDL LERAENGAMIDPTLLHYSFAFC ASHVHGNSQQMHVYLSGLPPN TDPEGSKTPSPPEPEAKKDTKK ESKKRKDSKTQANQELKRSLS NLP/ICEPTQ/W*TFPKYQIYQLT SL*ASHKCLLFRHRHGWLLY/ID ADNGSGTSEDLFWKLDALQTFI RDLHWPEEEFGKHLEQRLKLM ASDMIESCVKRTR\IAFEVKLQK TSSIQQIFRVPQFNMAPCFNVM GLMAKGSIQPKL\CSMEMGQE
9952	40320	A	10013	1	3951	MLDPSSSEESDEIVEEESGKEV LGSAPSGARLSPSRTSEGSAGSA GLGGGGAGAGAGVGAGGGGG SGASSGGGAGGLQPSSRAGGG RPSSSPSPVVSEKEKEELERLQK EEEERKKRLQLYVFMRCIAYP FNAKQPTDMARRQQKISKQQL QTVKDRFQAFLNGETQIMADE AFMNAVQSYEVFLKSDRVAR MVQSGGCSANDSREVFKKHIE KRVRSLPEIDGLSKETVLSSWM AKFDAIYRGEEDPRKQQ
9953	40321	A	10014	1	457	VAAVAATALKGGGARNARVL RGIFAGATA\INKASHNRTRALQ N/HTASPEGKEEP\EPLIPGTGKY IPQKRGAKNPHEGCGNLPWAIG FPCGILLFDPSPKR/RKLDKDRV\ KQMKARQNMVRSNTG\EYES\Q RFRASSQS\APSP\DVSGSVSGV QT
9954	40322	A	10015	464	863	TPAAVESSPSIPLAPRLLYTG*PL QP/GPRGQGCVPRIVPCCPKP/V CAPRPPWPRRSQRLRSAGLSPL CAAAAPPVPAGSHGTPGRVWA PLSNSACCTCCRHP* LHPGTLD PGRWQAR*GPALPRGPLPGSPP
9955	40323	A	10016	1	300	PKILVGASKVVLL\SAHKLGFIG DTLSRQAK\AVDVASRVTHYSN LL\CDFLQGIVATTKAAALQYP IAFPGPKDMVERVKELGHS\TQ QFRRVLGQLAAA

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9956	40324	A	10017	3	291	ARI/VFAIISFYFMPCCPLTA/SSFYLLSGLLD AFDGHALALLIKFCVRGSESHK MIDLSGNP/VLRIYYTS/RVGSVGLFR/MGLWVTAPIALLKSLISVIT
9957	40325	A	10018	1	344	VLIRARLSDNPAVRGSESHKMI DLFCYPVLRIYYTSRPAFTLCA GNELFYCLLYLFHFSEGPLVGS VGLFRMGLWVTAPIALLKSLIS VIHLITAARNMA\ALGRQQDRA KKK
9958	40326	A	10019	1	469	MVRSCFVDDRRKRCNFRQAS EVLNEYFYSHVSNPYHSEEAKE ELAKKCGITVSQVSNRFGNKKI RYKKNIGEFQEEANIYAVKTAV SVTQGGHSSTS\SPTPPSCACGG GSFNISGSGDMFLGMPGLNGDS YSASQALES GDASPAQSEMPK MGT
9959	40327	A	10020	232	1728	PGGGRGGAGRGPQGGPPAMDE RLLGPPPPGGGRGGLGLVSGEP GGPGEPPGGGDPGGGSGGVPG GRGKQDIGDILQQIMTITDQSLD EAQGQKTPPLNCP\RKKPVLFS GRGEIKEKTG\LSIRSSQEEEPVD PQLMRLDNMLLAEGVAGPEKG GGSAAAAAAAAASGGGVSPDN SIEHSDYRSKLAQIRHIYHSELE KYEQACNEFTTHVMNLLREQS RTRPVAPKEMERMVSIHRKFS AIQMQLKQSTCEAMMMLRSRF LDARRKRRNFSRQATEVLNEYF YSHLSNPYPSEEAKEELAKKCG ITVSQVSNRFGNKKIRYKKNIG KFQEEANIYAVKTAVSVTQGG HSSTSSPTPPSSAGSGGSFNISGS GDMFLGMPGLNGDSYSASQ/V WESLRHSMGARGVIGG*TFGG RARCYSPIEMRANGSWQEAV TPSSVTSPTEGPGSVHSDTSNLI LPLRVTVGVALTRLEEDAGFQ RTNPNTGEAQDREGPMGSSPP
9960	40328	A	10021	337	830	IPRLPGSIQLSFVGAFGQTSKSLF FLCVFILLFLFQFLCSVYVPMCT E/RRINIPIGPCGGMCLSVKGRC EPVLKEFGFAWPESLNCSKFPQ QNDHNMCMMEGPGDEEVPLPH KTIQPGEECHSVGTNSDQYIW VKRSLNCVLKC/GYDACLYSRS AQEVT\DIWMA

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9961	40329	A	10022	1	1561	MAWRGAGPSVPGAPGGVGLSL GLLLQLLLLLGPARGFGDEEER RCDPIRISM CQNLGYNVTKMPN LVGHELQTD AELQLTFTPLIQ YGCSSQLQFFLC SGYVPMGTEK INIPIGPCGGMCLSVKRR CETPS LK\EFGFA\WPESLNC SK/YPHP QND\HNPHVPWKGP GDEEVPLP HKTPIQP GEECHSVGTNSDQYI WVKRSLNCVLKCGYDAGLYSR SAKEFTDIWMAVWASLCFISTA FTVL TFLIDSCRFSYPERPIIFLS MCYNIYSIAYIVRLTVGRERISC DFEEAAEPVLIQEGLKNTGCAII FLLMYFFGMASSIWWVILT LT WFLAAGLKWGHEA IEMHSSYF HIAAWAIPPVK TIVILIMRLVDA DELTGLCYVGNQNL DALTGFV VAPLFTYLVIGTLFIAAGLVALF KIRSNLQKDGT KTDKLERLMV KIGVFSVLYTVPATC VIACYFY EISN WALFRYSADDSNMAVEM LKIFMSLLVGITSGMWIWSAKT LHTWQKCSNRLVNYT
9962	40330	A	10023	496	664	FYKAVPSIHQLDVPQTHQP*ST GLVQKVYSRSKHVSL*PKYYY VQLVPKLDHLIFY
9963	40331	A	10024	1	954	
9964	40332	A	10025	127	481	GRTREATWRVYSVAVGVSR SQ IIRIAREFADNADKTHGRSMIIV GAGLNHWYHLD MN YRGLINM LIFCGCVGQSGG/GWAHYVGQ EKLRPQTGWQPGVCLDWQRPA RHMNSTSYFLLVP
9965	40333	B	10026	161	234	
9966	40334	A	10027	3	199	DDFLDLAESP NASDTESSDEIPL KAGPGT LIMATGVQDFNRTEFD RLNAIKGHLEI\ALLEKHFFT
9967	40335	A	10028	37	455	LRTHLLPRLSQSSPVSSLPRALL RPPGQLELWAVPAGPGLLAA DASQNL TQHMEALASQSRGRV DMSDGH L AVLSPIEEELRKLRE ETNAEMLRQELDRERQRRMEL EQKVQEVLKARTEEQMAQQPP KGQAQASNGA

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9968	40336	A	10029	1	1721	DKIRFRGHKRDDFLDLAESPNA SDTECSDEIPLKVPRTSPRDSEE LRDPAGPGTLIMATGVQDFNRT EFDRLNEIKGHLEIALLEKHFLQ EELRKLREETNAEMLRQELDRE RQRRMELEQKVQEVLKARTEE QMAQQPPKGQAQASNGAERRS QGLSSRLQKWFYERFGEYVED FRFQPEENTVETEEPLSARLTE NMRRLLKRGAKPVTNFVKNLSA LSDWYSVYTSIAIAFTVYMNAV WHGWAIPFLFLAILRLSLNYLI ARGWRIQWSIVPEVSEPVEPPK EDLTVSEKFQLVLDVAQKAQN LFGKMADILEKIKNLFMWVQP EITQKLYVALWAAFLASCFFPY RLVGLAVGLYAGIKFFLIDFIFK RCPRLRAKYDTPYIIWRS�PTDP QLKERSSAAVSRRLQTTSSRSY VPSAPAGLGKEEDAGRHFSTKK GNFHEIFNL TENERPLAVCENG WRCCLINRDRKMPTDYIRNGV LYVTENYLCFESSKSGSSKRNK VIKLV DITDIQKYKVL SVLP GSG MGIAVSTPSTQKPLVFGAMVH RDEAFETILSQYIKITSAAASGG
9969	40337	A	10030	18	573	
9970	40338	C	10031	71	205	
9971	40339	C	10032	190	243	
9972	40340	A	10033	18	283	
9973	40341	A	10034	1	190	
9974	40342	A	10035	1	135	
9975	40343	C	10036	90	137	
9976	40344	B	10037	272	560	
9977	40345	A	10038	3	422	
9978	40346	A	10039	205	1090	
9979	40347	A	10040	1	2142	

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9980	40348	A	10041	15	1524	FPGRRFRAEGERTECAEPPRDEP PADGALKRAEELKTQANDYFK AKDYENAIKFYSQAIELNPSNAI YYGNRSLVYLRTCEYGYSL*D ATRAIELDKKYIMGYRRAS NMALGKFRAALRDYETVVKV KPHDKDAKMKYQECNK\IVKP KAFAIAAGDEHKRSVVDSLDI ESMTIEDEYS*PKLEDGKVTISF MKELMQWYKDQKKLHRKCAY QILVQVKEVLSKLSTLVETTLK ETEKITVCGDTHGQFYDLLNIFE LNGLPSETNPYIFNGDFVDRGSF SVEVILTLFGFKLLYPDFHLLR GNH\ETDNMNQIYGFEVEVKA KYTAQMYELFSEVFEWLPLAQ CINGKVLIMHGGLFSEDGVTL DIRKIERNRQPPDSGPMC\DLLW SDPQPQNGRSISKRGVTCQFGP DVTKAFLEENNLDYIIRSHEVK AEGYEVAHGGRCVTVFSAPNY CDQMGNKAS\YIHLQGS\DLRP\ QFHQF\TAVP\HPNVK\PMAYAN
9981	40349	A	10042	94	188	VIEHLVSQDGLDFL/NLVICPPR PPKVLGLQA
9982	40350	A	10043	419	495	EPTNENSPIALSR*VNSQKISMK AV
9983	40351	A	10044	1	265	EMESRSIA\RMECSGSISAHCKL RLPGSHSPASVSRVAGTTGTC HHARLIFLYF/LLETGFHCVSHD GLHLL/NLVICPPRPPKVLGLQA
9984	40352	A	10045	3	706	ADAWAWPHC/CTVLL*CLGFA GVLFGWPSLVFVFKNEDYFKD LCGPDAGPIGNATGQADCKAQ DERFSLIFTLGSFMNFMFTPTG YIFDRFKTTVARLIAIFFYTTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIKLLYEK GISLR/VLLHLHLCLQYLACSTH FPPDAPGAHPIPTAPQLQLWPV PWEWHHKGREGNS

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9985	40353	A	10046	1	1413	MKRGNGSRRRRRLLENNGVF HIESFAQHPKDEKSRKLLGPIEH WTFVVEKGKGKPEETGTVSMV LEDGEVEADIKQGSVVGCCNV PPDAARERAEEKAYMDGEQPTLI LLLWDLKKQIPVHKGTHSVGR HQTELLPNNGGGVVRFFYTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIIKLLYEK GISLRASFIFISVCSTWHVARTF LLMPRGHIPYPLPPNYSYGLCP GNGTTKEEKETAEHENRELQSK EFLSAKEVSTYTNAFAFTQFGV LCAPWNGLLMDRLKQKYQKE ARKTGSSTLAVALCSTVPSLAL TSLCLGFALCASVPILPLQYLT FILQVISRSFLYGSN\GRFLTAF PSEHFGKLFGLVMALSA\VVSL LQFPIFTLIKGS LQNDPF\YVNV MFMLAILL TFLPPLSGISGMPYL
9986	40354	B	10047	316	395	
9987	40355	A	10048	1	1614	RMQQQAVMHYMQQQQQQQQ QQLGGPPTPAINTPVHFQSPPPV PGEVLKVG PVLACPPPCPH*SQ PPLEPLPYLSETYGNKFAAHISP AQ\ALRNPHQPPPQGCELDTC PPPLATVLP/ISPMAMLHIGSNPE REVSEELASGHAACRARAHCC ASETMPNTVLLARVGWVCKGS REGGTHCGSEPGESGVTSSSCP ADLTQKRELTGTASLYPCAFY PTPPSFSPSLPAAPLPASLFLVLT WAG*KANDL*/VRFLRGRVMG LGGQQLTARLSALLQKSRELEN HSRRLEMTNKQLWLRIQVWS* TWTSLVTLTLNLAPGPKGQYFR MFCFGNKQSSASLSNTYQLEVL FCETLILAPTLLAPSSLMAHLEL ALKAIVTLKVPHTSVQWAWP MQAHSTSTLTSLAQVVKQEL PSEEGPGEALMLGAEPDPEPL PALPPQAPLPLPTQPPSPFHHLD FSHLSLFGGREDEGPPGYPEPLA PGHGSFPFSLSKDLMLLDD SLLPLASDPLLSTMSPEASKASS RRSSFSMEEGDVL

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9988	40356	A	10049	1	1651	GGVTAGARAPARGSVTAEEAA RAGRSGRGADGGREGRTGRA SLVARGSRPGAGGGHSLRAR HPNLRQVAGA/GGARAADRLT FRAREPAPAATMASRIGLRMQL MREQAQQEEQRERMQQQAVM HYMQQQQQQQQQQLGGPPTP AINTPVHFAQSPPPVPGEV LKVQS YLENPTSYHLQQSQHQKVREY LSETYGNKFAAAHISPAQVALR NPHQPPPQGCELDTCPPPLAT VLPISPMAMHLHIGSNPERELDD VIDNIMRL\TMSLGYNPEMQM PNTVLLARLPLSSSHLNVYSSDP QVTASLVGVTSSSCPADLTQKR ELTDAESRALAKERQKKDNHN LIERRRRFNINDRIKELGMLIPK ANDLDVRWNKG TILKASVDYI RRMQKDLQKSRELENHSRRL MTNKQLWLRIQELEMQARVHG LPTTSPSGMNMALAQQV\VKQ ELPSEEGPGEALMLGA\EGP\DP EPLPALHRQAPLPLPTQAPSPFH S/HWDFSHSL\SFGG\RVDDWSP GLPRTPGAGAWLPQPQVQEGS GPHAPGRLTATAGL
9989	40357	A	10050	2	76	TPLAPPPKPVRRRLKSRR*IKAR S
9990	40358	A	10051	3	206	
9991	40359	A	10052	1	492	

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9992	40360	A	10053	2	2395	KQTELRRSGSRDVTGALLVAA AVASEAVGSLRVAEGGPNTLLL QVLR\SWPWCNKATQTMEERK VKRRSPKSFSAHCTQVVNVQK KMSIPV\SKS\TGFSNPASQVNFT SRPKVKKEVMK\EKTKPQGLEE GQRHSSQLPIQHSFLT\DVSRCS RKMERGLLSL\LNDFHWSKTFK HFGN\ECSEQMEHVSSELQEK LARLNLELYGELEELPEDKRKT ASDS\NLDRLLSDCREMIPAFRT FLKRHDKTIVTKMLSLPELLLY PSRRFEEYLNLLYAVRLHTPAE HVDRGDLTTAIDQIKKYKGYID QTLSEVNRYLIRVQDVAQLHCC DEEISFSLSVACRSVDSASPESL PEMQNSQATLALLNQNLHFNKI TRYEHHDLSLFLFNDALLVSS RGTSHTPFERTSKTTYQFIASVA LHRLLIENIPDSKYVKNFILQG PKYKWICATEIEDDKFLWLSVL RNAIKSSMEKACGLVFTGQFMF DTMGMTNILNNQDTAALADG LMELSKEDSKCGKKIKDVEGN VIPTKCDPKTTFSLFMKERNVV EDNSWDTKSRLSKNDLNFEALI NLERILQKDSAERARVVRELL QSERKYVQILEIVRDVYVAPLK AALSSNRAILSAANIQIIFCDILQ ILSLNRQFLDNLDRDLQEWGPA HCVGEIVTKFGSQLNTYTNNFN NYPVILKTIEKQWETFSESSSS
9993	40361	A	10054	2	296	
9994	40362	A	10055	2	369	
9995	40363	B	10056	82	2483	
9996	40364	A	10057	2	3343	YDVVLDAIDTMQRVAWHIND MKRKHEHAVRLQEIQSLLTNW KGPDLTSYGELVLEGTFRIQRA KNERTLFLFDKLLITKKRDDT FTYKAHILCGNLMMLVEVIPKEP LSFSVFHYKNPKLQHTVQAKSQ QDKRLWVLHLKRLILENHAAKI PAKAKQAILEMDAIHHPGFCYS PEGGTALFGSKEGSAPYRLRR KSEPSSRSKVLKTSETAQDIQ KVSREEGSPQLSSARPSAQRNS QPSSSTMISVLRAGG

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9997	40365	A	10058	32	483	LKGHADAVLAAGTEAVKCHLL LGRHLLRLMASSGIHHKIVN*R QYAKFSHG*IQKF**WQHRQQF RGKETEMASAVDLPVTLTETEA NFPPEYEKFWKTVENNPQDFTG WVYLLQYVEQENHLMAARKA FDRFFIHYPYCYGYWKKYADL
9998	40366	A	10059	1	1090	MRQKRKEEKELFHNKDCEKKE KNSWERMRTGTGTEKMASESET PTGAISQYKERMPVTHSPEIM DLSELRPFSKPEIALTEALRLLA DED/WDKQLHALEQLLASCYS GTRHTTSSFHCGHQGMWWHPE AWRC/LATAEPQREPGKSTISSH SSLWN*Q/LHSHKLQSVPLKV KNLRSGVSRAAVVCLSDLFTYL KKSMDQELDTTVKVLLHKAGE SNTFIREDVDKALRAMVNNVT PARAVVSLINGGQSHLHIAVRR CTAQLSDVLEFMEPERILSAA KDMAERILPAAAKFAQDSSQET RYYGRKMLFFMMCHPNFEKM LEKYVPSKDLPIYIKDSVRNLQQ KVCCKSLFYKQLYKQSLFLHP
9999	40367	A	10060	36	203	
10000	40368	A	10061	1	798	MKFQYKEDHPFEYRKKEGEKI RKKYPDRVPVIVEKAPKAR/RA *SGQEEVPSAL*PYCCLP/DGAG LGTCS/HAMPEPPTHSMGTCAA RASPTSTTPCSTAPSPIDRE\EQT TQGLRNASARRGTGRQLHLQ/S PVWDPLGEASWAPESSGNVESI SSSGIVNIPISLCLAQGFSTRFVN APIDTLYLAALVGPWRTFMSSS GIVNTPIGTLYLAQGMVHYHKS PFPTCLVQMSKIESLPKEKGAQ GVAAGLPSSLAPTCPDPSPMK LHNN
10001	40369	A	10062	164	605	ALLKQHLRTVHRSAPPIRGHCC VSSSWT*G/AGKLSLEHTEEPSD VPSHLLYRWSISSAITEVFQALA SS\IPPRSQ*MSTPRR\NESTRHSP GPSIEEVKECMQDDN*YLOGTS YAPAGSQSYSAKLCFQVLKRN TCPPEKPNPASER

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10002	40370	A	10063	3	2480	RPITGAEIVAIINSLPTKSPGLD GFTAEFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKNHMHISIDAEKAFDKIQQ/R LHAKNS/RIN*VLM/ETYFKIIRA IYDKPIANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWNIPCSWVGRINI VKMAILPKVIYRFNAIPIKLPMT FFTELEKTTLKFIWNQKRAHIA KSILSQKNKAGGITLPDFKLYY KATITKTAWYWYQNRDIDQW NRTEPSEITPHTYNCLIFDKPEK NKKWKGDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQNI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFATYSSDKGLISRIY NELNQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKKHMKKCS SSLAIEMQIKTTMRYHLTPVR MAIIKKSNNRCWRGCGEIGTL LHCWWDCCLVQPLWKS VWR
10003	40371	A	10064	317	582	STVCCFLLRFIGGGFRHIPLSVD LWIHYIKILKETLDPGDPETNNT IRGYVEH*Y*NVFYDINNYS DV DNRAHES*AGSLTSIPLKK
10004	40372	A	10065	41	434	GDLQPTAALWEPLSGLAKAGA RSLSLQGGVGGEARARTRAAR GACGPAAAPGGHGLGGHALGA AGR/RLLALGRLGTCSLPCLSLP PSPWAPVPPEPPR*VPPHAPGRP VPSATQRLRSAGAQRRTGRQL
10005	40373	A	10066	67	459	LRDCKYTHRHCVSSSRFINTPIN TLCLAQGL*VHQSTLCI*LLWV GGLGGNFCVQYSVSN*SDGDV ENLCI*LRDCKCTNQHPVKTGH FGSTNQQDVGWGQIKRIKAGLP EPASGNSLGS PSTLWELCSLQ

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10006	40374	A	10067	2481	2882	IPQGNRYRIARNAKTQRGGNLT LTKPS/GIGRRGENSSISSWQRQ QKGGKETGSQRKRQRGRDKKL ERKRDRHRSQREGKKERKRQR RSQRERWK**RKNSVPIPLKAR VNFSLPTQGNSLLDLNPYLPLK QLKK
10007	40375	B	10068	52	5199	
10008	40376	A	10069	1510	2454	
10009	40377	B	10070	97	3414	
10010	40378	A	10071	164	620	PPTGCGTGPIGCSGPGTGPVPVP VAPFPQEGARTQPGSAGA\PG ARGLRRAETLVALGAVGPGLP TPPPPPPPAPQSQAPGGPEAQPF GSRVCVLASCCAHRPRPAPSAP PAPPAPPESTVRPAPPTRPGESS YSSISHAFTATNFPFGTA
10011	40379	A	10072	1	513	MATLAGEGRPAGWVPWISLLA VGVLIHWKLWPAPPIGGELQFA FVCFLGNVYEA FEHWKRLN LLCRSEAAMKK/HATRLWINLI SILHHQLGEIPADFFVDIVSQHN FLTSTLQVFFSSACSI AVDATLR KKA EK FQAHLTKKFRWDF AEE PEDCAPVVEELPEGIEMG
10012	40380	A	10073	1	1642	MDYIRDTLTTAAPSPPRRLGPPP PGEQPPSGSGHVRPPGARPPHR GGGRGGGGGDP AAPPARGGGG GGKARPPGGGAAPCEPGCQCR APMVSVSSERHPLYNRVKTGQI ANCALPCHNPFFSQDERAFTVF WIGLWSVLCFVSTFATVSTFLID MERFKYPERPIIFLSACYLFVSV GYLVRLVAGHEKVACSGGAPG AGGAGGAGGAAAGAGAAGAG AGGPGRGEYEELGAVEQHVR YETTGPA LCTVVFLLVYFFGMA SSIWWVILSLTWFLAAGMKWG NEAIAGYSQYFH LA AWLVPSV KSI AVLALSSVDGDPVAGICYV GNQSLDNLRGFVLAPLVIYLFIG TMFLLAGFVSLFRIRSVIKQD GPTKTHKLEKLMIRLGLFTVLY TVPA AVVVACL FYE QHNRPRW EATHNCPCLRDLPDQARRPD YAVFMLKYFMCLVVGITSGVW VWSGKTLESWRS LCTRCCWAS KGA AVGGGAGATAAGGGGGP GGGGGGGPGGGGGPGGGGGSL YSDVS\TGLTWRSGTASSVSY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10013	40381	A	10074	3	475	HSSLNSVDKARALEADNGELE VNIRDWYQKQGPASRDYSHY YTTIQDLRDKILGATIENSRIVL QIDNARLAADDFRTKFETEHAL RMSVEADINGLRRVLDELTLAR TDLEMHIEGLKEELAYLKKNHE EEISTLRGQVGGQVTV*VDSAP GTDL
10014	40382	A	10075	39	1323	NGMWSNWNPLIPQRWEEKFQS PSRRHGSSSRGVSLSSISGGYSGI LSGSNGLLAGNEKLTMHNLNN CLASYLDKVHALEAANSKLEF GLSVWVLDEVTLARTDLEAQI KGLKEELAYLKKKHEEEINALR GQVGQDVHILSDRQSQYEIMA KQNWKDAEAWFTSWTEELNQ EVTGHIEQLQISRSEVTDLQCTL QGLEIELHSQLSVKAPLEGTLA ETEACFGAQLVQIQALISSIEAQ LGDVRADGEWQNQEYQRLLE QEIATYRSLLEGQEDHYNNLST SKVQIPECTVSNVPVASVCLQT LEPHSLASNPGSSTYSVTFGQYI NLSVSPFLLLEATIAGAKKAAT GNNSTQFSPPAERQLCIFTCPRT IPLTTASHAGSYGPKLVKYTSL RPLPMAAPTESNPALPSSRATA HRLLPAPGHFPSGL
10015	40383	B	10076	133	180	

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10016	40384	A	10077	1	2182	MSVDKAELCGSLLTWLQTFHV PSPCASPQDLSSGLAVAYVLNQ IDPSWFNEAWLQGISDPGPNW KLKVSNLKMLVLRSLVEYSQDV LAHPVSEEHLPDVSLIGFSDPA ELGKLLQLVLGCAISCEKKQDH IQRIMTLEESVQHVVMETAIQEL MTKDT\PDLSLPETYGNFDSQS RRYYFLSEAEEGDELQQRCLD LERQLMLLSEEKQSLAQENAGL RERMGRPEGEGTPGLTAKKLLL LQSQLEQLQEENFRLESGREDE RLRCAELEREVAEL\QHRNQAL TSLAQEAQALKDEMDELQSS ERAGQLEATLTSCRRRLGELRE LRRQVRQLEERNAGHAERTRO LEDELRRAGSLRAQLEAQRRO VQELLGQRQEEAMKAEKWLFE CRNLEEKYESVTKEKERLLAER DSLREANEELRCAQLQPRGLTQ ADPSLDPTSTPVDNLAAEILPAE LRETLLRLS/LLENKRLCRQEAA DRERQE/EKLQRHLEDAN\RAR HG\LETQ\HRLNQQAAYSELRA QVEDLQKALQEQQGGKTEDAISI LLKRKLEEHLQKLHEADLELQR KREYIEELEPPTDSSTA\RRIEEL QHNLOKKDADLRAMEERYRR YVDKARMVMQTMPEKQRPAA GAPPELHSLRTQLRERDVIRH LEMDFEKSRSQREQEEKLLISA WYNMGMALQ\QRAGE\EPAPA
10017	40385	A	10078	1	687	
10018	40386	A	10079	1	1104	
10019	40387	A	10080	1	677	MAAAGGGGGGAAAAGRAYSF KVLLGEGCVGKTSVLRYCE NKFNDKHITTLQASFLTCKLNI GGKRVNLAIWDTAGQERFHAL GPIYYRDSNGAILVYDITDEDSF QKVKNWVKELRKMLGMETCL CIVGNKIDLEKERHVS IQEAE SY AESVGAKHYHTSAKQNKGIEE LFLDLCKRMIETAQVDERAKG NGSSQPGTARRGVQIIDDEPQA QTSGGGCCSSG
10020	40388	A	10081	1	1467	
10021	40389	A	10082	2	244	
10022	40390	A	10083	1	257	
10023	40391	A	10084	1	558	
10024	40392	B	10085	41	618	
10025	40393	A	10086	1	591	

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10026	40394	A	10087	128	851	KMEKEKGNDDGIPDQENSLDFS EHFNQLELLETHGHLIPTGTQSL WVGNSDEDEEQDDKNEEWYR LQEKKMEKDPSRLLWAAEKN RLTTVRLLSEKATHVNTARDE DEYTPLHRAAYSGHLDIVQELI AQGADVHAVTVDGWTPHSA CKWNNTRVASFLLQHDADINA QTKGLLTPHLAAGNRDSKDT LELLLMNRYVKPGLKNNLEET AFDIARRTSIYHYLFEIVEGCTN
10027	40395	A	10088	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGG*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTDQEA VI DGRRKPEESRTTSHICRCRS
10028	40396	A	10089	2	461	
10029	40397	A	10090	2	749	
10030	40398	B	10091	1	1077	
10031	40399	A	10092	1	1114	MPQNSLEECALELGKKS LQEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGKVFQTPYTAAQKVE LVAVIEVLTAFDMPVSMISDST YVVHSTQLTENALRLHTDEQ LMTLFSQLQTAVR/CFAVMGIP ASRKTDNVPGYTIQTLATFFSM WNIKHITGIPYNSQGGQAI VGRIN LSLKQRLQKQKEGNREYRTPQ MQLNLALLALIFLSLSKGQMLS AAEQHLQKPPAKTEAEQLIWW RDTKTRSWEIGKIITCGRGYAC VSPGQNQQPIWTPSRHLKPYHE PDAKKRFREDPEDPPSCSHVKT DAEEDPNCHEQHPSNTAIHLRS DQEA VTDGRRKPEESGTTSHNE
10032	40400	A	10093	239	783	RRAPGTAPDAGPELRS LHNLL GPACIFLRKGAENRQPVQLRE AFREFDKDKDGYINCRDLGNC MRTMGYMPTEMELIELSQQIN MNLGGHVDFFDFVELMGPKLL AETADMIGVKELR/DAFREFTD NGDGEISTSELREAMRLLGHQ VGHRDIEEIIIRDVDLNGDGRVD FEAPFGSSN
10033	40401	A	10094	1	304	
10034	40402	A	10095	3	154	
10035	40403	B	10096	126	251	
10036	40404	B	10097	122	2916	

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10037	40405	A	10098	3	2433	LAELSSLSVLRLSHNSISHIAEG AFKGLRSLRVLDLDHNEISGTIE DTSGAFSGLDLSKLTFLGNKIK SVAKRAFSGLEGLEHLNLGGN AIRSVQFADFVKMKNLKEHIS SDSFLCDCQLKWLPPWLIGRML QAFVTATCAHPESLKGQSIFSV PESFVCDDFLKPQIITQPETTMA MVGKDIRFTCSAASSSSSPMTF AWKKDNEVLTNADMENFVHV HAQDGEVMEYTTILHLRQVTF GHEGRYQCVITNHFGSTYSHKA RLTVNVLPSTKTPHDITIRTTT MARLECAATGHPNPQIAWQKD GGTDFPAARERRMHVMPDDD VFFITDVKIDDAGVYSCTAONS AGSISANATLTVLETPSLVPLE DRVVSVGETVALQCKATGNPP PRITWFKGDRPLSLTERHHLTP DNQLLVVQNVVAEDAGRYTCE MSNTLGTERAHSQLSVLPAAG CRKDGTTVGIFTIAVVSSIVLTS LVWVCIIYQTRKKSEEYSVTNT DETVPDPVPSYLSSQGTLSDR QETVVRTEGGPQANGHIESNGK ASVTVKQSSAVTVSLGAGGGL QVFTGQVPGIRWGKLGEVEGG VCPRDASHFPEPDTHSVACRQP KLCAGSAYHKEPWKAMEKAE GTPGPHKMEHGGRVVCSDCNT EVDCYSRQAFHPQPVS RDSAQ PSAPNGPEPGGSDQEHSPHHQC
10038	40406	A	10099	1	164	
10039	40407	A	10100	368	566	

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10040	40408	A	10101	3	1160	RDQRGYRDDSPAREPGDVSA RTRSGGGGGRSATTAMPPVPN GNLHQHDPQDLRHNGNVVVA GRPSCSRGPRRAIQKPQAGGR RSGRGPAAGGLCLQPPDGGTC VPEEPPVPPMDWEALEKHLA LQFREQEVNRNQGVQARTNSTSA QKNERESIRQKLALGSFFDDGP GIYTSCSKSGKPSLSSRLQSGM NLQICFVNDSG\SDKDSDADDS KTETSLDTPLSPMSKQSSSYSID RDTT\EEEESESLGWTWDFLYKG KRNLQAEAKMALAMAKPMAK MQVEVEKQNRKKSPVADLLPH MPHISECLMKRSLKPTDLRD\LI MGQLQVIVNDFISQ\IKSLNEEW VQLLL\QDELHTEQDAMLVDIE DLTRHAESQQKHMAEKMPAK
10041	40409	A	10102	1	506	RGPRTPEQDPCCPRAAAGARPS GPG/QDLPLRLPGSPGAPGAG GGAGTAAGRKGPGLPPEAAAD GAWRLGEGWAAASEEPAPPGP HTSQRGASPPQPGWARAAGLS NQPTKDRIFGGSHKAAPQASAD SPTSLQCGAAGHCPKASRRALG DNPETEATSSLSPTEWLQ
10042	40410	A	10103	1	429	MGSRLNWMEVIPEQCTYLHVLI KCMFFWNRQHRGGIOEKAALK QRTPRIFHEKNTPCYLLVQE*H RSNAFGEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEETLFSNM
10043	40411	A	10104	4	122	
10044	40412	A	10105	53	619	ILVWSIVPEGKILWGTKQQRD SRTQRLLKKSPWRAKQSVWEE/ ERKKKNKEEKEEKEKEKEKK EKEKEKRRKKRKKKKKKKK KKKKKKKKKKKKKKKEEEEE EDEEEEEEEEEKKKEKEEKVK EKKEEKK/QEEKEEEN/EEEEK EEEEKEEKSSSSKYSLLDSVPTL LISLWVILNTLPELLQPA
10045	40413	A	10106	2821	4680	
10046	40414	A	10107	18	1535	
10047	40415	A	10108	3	1494	
10048	40416	A	10109	3	617	
10049	40417	A	10110	3	1142	
10050	40418	B	10111	1	2151	
10051	40419	B	10112	1	1461	
10052	40420	A	10113	1	1248	
10053	40421	A	10114	2	1624	

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10054	40422	A	10115	1	1416	
10055	40423	A	10116	1	2262	
10056	40424	A	10117	1	1791	
10057	40425	B	10118	1	1497	
10058	40426	B	10119	1	1599	
10059	40427	A	10120	1	1722	
10060	40428	A	10121	1	3168	
10061	40429	A	10122	1	1083	
10062	40430	A	10123	1	589	MGAIYDKPTANIILNGQKLEAF PLKTGIRQGCPLSLLLFNIVLEV LARAIRQEKEIKVIQVGKEEVK LSLFADDMIVYLEDPHISAPNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEKEDTNKWKNI PCSWVG RINIVKMAILPKPYVES
10063	40431	A	10124	1	1566	
10064	40432	B	10125	1	2406	
10065	40433	A	10126	1	2478	
10066	40434	B	10127	69	1259	
10067	40435	B	10128	225	997	
10068	40436	A	10129	2	1124	
10069	40437	A	10130	1	2058	
10070	40438	A	10131	258	823	TLMQKSSAKYWQTESSTSKSL STMIKWASSLGCKAGSIYANQ* M*SSI/YTNNRQTESQIMSELPFT IASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNI PCS WVGRINIVKMAILPKVIYRFNAI PIKLPM TFFTELEKTTLKFIRNQ KRACIAKSILSQT KLEASRYLTS NYTTRLQ
10071	40439	A	10132	1	1512	
10072	40440	A	10133	1	992	
10073	40441	B	10134	1	2019	
10074	40442	A	10135	1	1203	
10075	40443	A	10136	1	1578	
10076	40444	A	10137	1	2956	
10077	40445	A	10138	1	1983	
10078	40446	A	10139	1	3156	
10079	40447	A	10140	1	3325	
10080	40448	A	10141	1	1870	
10081	40449	A	10142	1	1446	
10082	40450	A	10143	1	2310	
10083	40451	A	10144	1	1293	
10084	40452	A	10145	1	1038	
10085	40453	A	10146	1	1713	
10086	40454	A	10147	1	2271	
10087	40455	A	10148	1	3654	
10088	40456	A	10149	1090	1647	

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10089	40457	B	10150	1	1248	
10090	40458	A	10151	1	1884	
10091	40459	A	10152	1	1140	
10092	40460	B	10153	1	1545	
10093	40461	A	10154	1	3300	
10094	40462	A	10155	1	1824	
10095	40463	A	10156	1	1023	
10096	40464	A	10157	1	2169	
10097	40465	A	10158	1	2661	
10098	40466	A	10159	1	1104	
10099	40467	A	10160	1	1668	
10100	40468	A	10161	1	1945	
10101	40469	A	10162	1	3303	
10102	40470	A	10163	1	1382	
10103	40471	A	10164	1	399	MPPVDASRDLRELNPLSSYKAK PNEYLLL VQVLFNLRNTKEGLI RLLARYPDDLQQTESQIMSELP FTIASKRIKYPGIQLTKDVEDLF KENYKPLLSK\KEDANKWKNIP CSWIGRINIVKMAVLPPKKKIWV
10104	40472	A	10165	1	2218	
10105	40473	B	10166	1	2562	
10106	40474	A	10167	1	3169	

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10107	40475	A	10168	1	2105	MKAEIKMFFETNENKDTTYQN LWDAFKAVCRGKFIALNAHKKR KQERSKIDNLTSQLKELEKQEQ THSKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK WDITDPTEIQTTIREYYKHLA NKLENLEEMDKFLDYYTLPRLN QEEVESLNRPTGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIGKEGILPNSFYE ASIIIPKPGRDTTKKANFRPISL MNIDAKILNKILAKRIQQHIKKL IHHDQHINKAKDKNHMIISIDAE KAFDKIQPFMLKTLNKLIGDG TYFKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLFNIV LEVLARAIRQEKEIKGIQLGKEE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKIE NYKPLLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKGFCRFRN HHQTGFSPAGANQRGPLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINAAGTT GFPTGKRAVSATQLMDFADFG TTIKQDFRLLGQTSVDRLLQLS QGQAVKGNQLLPVSLVKRKT LAPNTQTASPRALADSLMQLA RQVSRLESGQ
10108	40476	A	10169	1	1689	
10109	40477	A	10170	425	1333	
10110	40478	A	10171	1	2274	
10111	40479	A	10172	1	3828	
10112	40480	A	10173	3	3130	
10113	40481	A	10174	1	960	

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10114	40482	A	10175	746	2470	TLMQKSSIKYWQNESSSTSKSL STMIKWASSLGCKAWFNIRKSI KVIQHINRAKDKNHMIISIDAEK AFDKIQQPFMLKTLNKLIGDGT YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLIRNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLLKEN YKPALLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKNWKKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHTYNYLIFDKPEKNKQWGKD SLFNKWCWENWLAICRKLKLD PFLTPTYTKINSKWIKDLNVRPK TIKTLEENLGITIQDIGMGKDFM SKTPKAMATKAKIDKWDLIKL KSFCTAKEATIRVNRQPTKWEK IFATYSSDKGLISRIYNELKQIY KKKTNNPikkWVKDMNRHFA KEDIYAAKKHMKKCSPSLAIRE MQIKTTMRYHLTPVRMAIIKKS
10115	40483	A	10176	1	3492	
10116	40484	A	10177	1	3139	
10117	40485	A	10178	637	2760	
10118	40486	A	10179	2	3932	
10119	40487	A	10180	1	1865	
10120	40488	A	10181	1	5754	
10121	40489	A	10182	959	1615	
10122	40490	A	10183	701	6973	
10123	40491	A	10184	3	3319	
10124	40492	A	10185	1	3296	
10125	40493	A	10186	1	2296	

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10126	40494	A	10187	1614	2615	TLMQKSSIKYWQTESSSTSKSL STMIKWASSLGMQGWFNICKSI NVIQHINRTKGKNHMIISIDAEK AFDKIQQPFLKTLNKLIGDGT YLKIIIRAIYDKPIANIILNGQKLT FEKFPLKIGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLAKE EVKLSLFADDMIVYLENPIVSV QNLLKLISNFSKVSGYKIYKIDV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FK\ENHKPLLKEMKEDTNKWKN IP\CSWVGGRINLVKMAIL\PKVI YRFNAIPIKL\PMTFFTELEKNYF KVHMEPKKEPVLPSQS
10127	40495	A	10188	141	401	
10128	40496	A	10189	1	156	MQFPKTKTKKKEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEGEE EKEEI
10129	40497	A	10190	1	1446	

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10130	40498	A	10191	272	2722	ETSCPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPRVCLTIEG QEIDFLDDTGAAFSVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLLMPERPTG LLGRDILAKAGAIHYMNMGNKL PICCPLEEGINPEVWALEGQFG RAKNAHPVQIRLKDPTTFPYQR QY/PLRPEAHKGLQNVKHLKA QGLVRKCSSPCNTPILEVQRPRL VQDLRLINEAVISLYPVVNPYPT LLSQIPEEAEWFTVLDLKDAFF CVPLHSDSQFLFAFEDPTNHTS QLTWMVLPQGFDRDSPHLFGQA LAKDLGHFSSPGTLVLQYVDDL LLATS*EALCQQATLDLLNFLA NQGYKVSMSKAQLCLQQVKY LGLILAKGTRALSKE*IQPILAY PRPKTLKQLREFLGITSFCRLWI PGYSETARPLYTLIKDTQRANT HLVEWESEAETAFTKTLKQALV QAPGLSLPTGQNFSLYVTERAG IALGVLTQTRGTTTPQPVHLSK ETDVVAKGWPHCLRVVAAVA VLVSEAIKIIQGKDLIVWTTHEV NGILGAKGSLWLSDNCLLRYQ ALLLEGPVLQICTCMALNPATF LPEDGEPIKHDCQQIIVQTYAAR DDLLEVPLTNPDNLNLYTDGSSF VENGI/RKVS DVITLESKPLPPGT SAQLAELVALTWALELGKGR

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10131	40499	A	10192	1	2529	MTQEPSAIMREVPPEMVNLIKGT GDIHNTEIQNDNGKVGMTKCM AKPKDELRLNKLILSESLESAQR QGVSKQEKVLQCRRAQDLQPT MPEPPIPSMGSCAARASPTSATP CSRAPSPTDHPTAAKCRMRMAR YWQAAPPAALVLDQLGEASW APESANLVGKWRTFVSSSGTA NAPISTLSKQTTGLYQSAGCGW GQNLGAKYRAPVGQLKATSTA ARLKTRVSGFLGKGSLLTPDSS ELGPLDPTDHTSQLTWTVLPPQ FRDSPHLFGQALAQDLGHFSSP GTLILQYVDDLLLATSLALCQ KATLDLLNFLANQGYKVSRLK AQLCLQ\SEIARPLYTLIKETQR ANTHLVVSEPEAVI/AFETLKQA LVHAPALSLPIGQNFSLYITERA GIALGDLTQTCGTTTPQPVAYLS KEIDVVAKGWPHCLRVVAAVA ILVSEAIKIMQGKDLTVWTTHD VNGILGAKGSLWLSDNHLLRY QALLLEGLVLQICTCVLNTAT FLPEDGEPIEHDCQQIIVQTYAT RDDLLEVPLTNPDLNLYTDGSS VVENGIRRAGYAIVSDVTILESK PLVPGTSAQLAELVALTRALEL GKGKIINVYTDISKYAYLILHAH AAIWKEWEFLTSGNPHGCHRE VMELLHMVQETKEVGVLYHYQS HQNGKERGEQQRKQLAEASAA FLWGRALDLQPTMPEPPIPSMG
10132	40500	A	10193	1	197	
10133	40501	A	10194	1	259	
10134	40502	A	10195	1	295	
10135	40503	A	10196	1	439	
10136	40504	A	10197	1268	1420	
10137	40505	A	10198	1	389	
10138	40506	C	10199	1	298	
10139	40507	A	10200	2	90	
10140	40508	A	10201	3	1252	
10141	40509	A	10202	2	82	WMKLETSKLT*EQKTKHCMFS LISGS
10142	40510	A	10203	149	244	
10143	40511	A	10204	485	668	
10144	40512	B	10205	1	598	
10145	40513	C	10206	422	784	

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10146	40514	A	10207	3	899	IYNHLIFDKPDKNKQWGK\DSL FNKWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEENLGNTIQDIGMGKDFMTK TPEAMATKAKIDKWDLIQLKSF CTANETVIRVNRQPTWEKIFAI IYPSDKGLISKIYKELYEKKTN LIK KWAKDMNRHFSKEDFYEA KKHEKSSSLGQGVTKGGCCLP MNLLGTYRSEENPSEYQRRQLI KTLRVCKPSSSYFLTSDFLDTPS FSCEPTQNELQGCSLRF RVAT AAGPVQVRGARLP SFAAPERGL AQIPRQMDSKI
10147	40515	A	10208	3	352	APGRRRRRLCQPAGGPGAWPGS AVPGSVSPAPDARSPISGPSRAL RRHLRPSAAGGPGLEIPTHDPH LPGVDYKEGRP\PSGKAGRGGP\ PGKGPSASGARALGV PAAAA TPRASTL
10148	40516	A	10209	1	510	
10149	40517	A	10210	73	327	
10150	40518	A	10211	1	957	MWSTCKLHGQGAKYILCAAEL SWGAA SCLHGSTM SLTVVSMA CVG\AWPLMGGQDKP/FLSARP STVVPRGGH VAF/RCHYRRGFN NFMLYK/EDRSHVPIFHGRIFQE S/FIMGPVTPAHAGTYRC/RGSR PHSLTGWSAPSNP/LVIMVTGN HRKP/SLLAHPGPLLKSGETVI/L QC/WLSA/PSDPLDIVIT/GWENP CLSHVL*S*SHS*ELPADDGEKH GQM QREPKTG*NPSSSWPSPTE/ PSSKSGICR/HLHVLIGTSVVIFL FI/LLFFLLYRWCSNKK\DSDE QDPQEV TYAQL/NHCVFIQRKIS RPSQR/PKTPLTDTSVYTELPNA
10151	40519	A	10212	351	637	AWIGDMGLDWRYGLRVEISA WSGDMGLEWRYGLREGMFN DTLRLIGEHH DGVS KANFSISR MKQDLAGTYRCYGSVTHSPYQ LSAPSDPLDIVII
10152	40520	A	10213	1	1314	
10153	40521	A	10214	1	1008	

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10154	40522	A	10215	3	1080	GQDKPLLSAWPSLVVPLGHVIL RCHSYLGFNNFSLYKEGVHRKP SLLAHPGRLVKSEETVILQCWS DVRFEHFLHREGKFKDTLHLI GEHHDGVSKANFSIGPMMQDL AGTYRCYGSVTHSPYQLSAPSD PLDIVITGLYEKPSLSAQPGPTV LAGESVTLSCSSRSSYDMYHLS REGEAHERRFSAGPKVNGTFQ ADFPLGPATHGGTYRCFGSFRD SPYEWSNSSDPLLVSVTGNSRY LHALIGTSVVHIFAILLFFLLHR WCANKKNAAVMDQEPAGNRT VNSEDSDEQDHQEVSYA*LDH CVFTQREITRPSERPKTPPTDTS MYIELPNAEPRSKVVFPCPRAPQ
10155	40523	A	10216	3	1379	
10156	40524	A	10217	352	1825	
10157	40525	A	10218	1	1497	MGLEWRYGPGGADMMDLEWRY GPGVEMWVWSGDMGLEVEIR AWSGDMGLEWRYEPGDGDMG LEWRYGPGGGQDKPLLSTWPS LVVPPEHVTLRCHSNLGFNNFS LYKDDGVPVPELYNRIFWKSFL MGPVTPSHTGTYRCRGSHTHSP SGGSAPSNPLVIVVTGFRRKPSL LAHPGRLVKSEETVILQCWSDV MFEHFLHREGTFNHTLRLIGE HIDGVSKGNFSIGRMTQDLA GTYRCYGSVTHSPYQLSAPSDPLD IVITGLYEKPSLSAQPGPTVLAG ESVTLSCSSRSSYDMYHLSREG EAHERRLPAGPKVNRTFQADFP LDPATHGGTYRCFGSFRDSPYE WSKSSDPLLVSVTGNSSNSWPS PTEPSSETGNPRHLHVLIGTSVV KLPFTILLFFLLHRWCSNKKNA SVMDQGPAGNRTVNREDSDEQ DHQEVSYA*LDHCVFTQRKITP PSQRPKTPPTDSSMYIELPNAES RSKAVFCPRAPQSGLEGIF
10158	40526	B	10219	114	1944	

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10159	40527	A	10220	20	1138	AGARPPVCTGSTMSLMVIIMAC VGFFLLQGAWPQEGVHRKPSF LALPGHLVKSEETVILQCWSDV MFEHFLHREGKFNNLTHLIGE HHDGVSKANFSIGPMMPVLAG TYRCYGSVPHSPYQLSAPSDPL DMVIIGLYEKPSLSAQPGPTVQ AGENVTLSCSSRSSYDMYHLSR EGEAHERRLPAVRSINGTFQAD FPLGPATHGGTYRCFGSFRDAP YEWSNSSDLLVSVTGNPSNSW PSPTEPSSKTGNPRHLHVLIGTS VVKIPFTILLFLLHRWCSDKKN AAVMDQEPAGNRTVNSEDSDE QDHQEVSYA*LDHCVFTQRKIT RPSEPKTPPTDTSMYIELPNAE PRSKVVFPCRAPQSGLEGIF
10160	40528	A	10221	1	1334	MSLMVVSMACVGLFLVQRAGP HMGGQDKPFLSAWPSAVVPRG GHVTLRCHYRHRFNNFMYLKE DRIHIPHFHGRIFQESFNMSPVTT AHAGNYTCRGSHPHSPTGWSA PSNPVIMVTGNHRKPSLLAHP GPLVKSGERVILQCWSDIMFEH FFLHKEGISKDPSRLVGQIHDG VSKANFSIGPMMQDLAGTYRC YGSVTHSPYQLSAPSDPLDIVIT GLYEKPSLSAQPGPTVLAGEVS TLSCSSRSSYDMYHLSREGEAH ERRFSAGPKVNGTFQADFLGP ATHGGTYRCFGSFRDSPYEWSN SSDPLLVSVTGNPSNSWSPSTEP SSETGNPRHLHVLIGTSVVIILFI LLLFFLLHRWCNKKNAAVM DQESAGNRTANSEDSDEQDPQ EVITYTQLNHCVFTQRKITRPSQ RPKTPPTDIIVYTELPNAESRSK
10161	40529	A	10222	50	492	RARHRVTRPSIRKHS GHIRRLC LTCSSGVFLQGLRAGSRGTGPG LRTGWRLSPRAPRRRLHTPSAS SP*CSQ*RGPSAGTAAGARRRW RCRGQLRHPAGTSPPGRRWTG TACGPPAAPAPWHSSWSCPHS GAGPPWSPACRTASL

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10162	40530	A	10223	3	3159	QAEFAAASTTPALGSDGVRVT MDSALTARDRVGVQDFVLLN FTSEAAFIENLRRRFRENLIYTYI GPVLVSVNPYRDLQIYSRQHME RYRGVSFYEVPPHLFAVADTV YRALRTERRDQAVMISGESGA GKTEATKLLQFYAETCPAPQR GGAVRDRLLQSNPVLEAFGNA KTLRNDNSSRFGKYMVDVQFDF KGAPVGGHILSYLLEKSRVVHQ NHGERNFHIFYQLLEGEEETL RRLGLERNPQSYLYLVK
10163	40531	A	10224	1	2810	MLNGCAHAHPFPTIRLSECPRG MLRAGFHLNRREALPPSRSHIS AAVLAPGALLSWGPDHPLELY GLHSHQDPPTGYEGVKGAPVG GHILSYLLEKSRVVHQNHGERN FHIFYQLLEGEEETLRRLGLER NPQSYLYLVKGQCAKVSSINDK SDWKVVRKALTVIDFTEDEVE DLSIVASVLHLGNIHFAANES NAQ\VTTENQ\VKYLTRLSSVE GSTLREALTHRKIIAKGEELLSP LNLEQAAYARDA
10164	40532	A	10225	1	416	FRGVARQLRTSAMTMPVNGAH KDADLWSSHDKMLAQPLKDS VEVYNIIKKESNRQVRGLELIAS ENFASRAVLEALGSLNNKYSE GYPGQ\GSPANFAVYTALVEPH GRIMGLDLPDGGHLTHGFMTD KKKISATSI
10165	40533	A	10226	135	840	GSPANF/AV/YTALVETHGCIMG LDLPDGGHLTHGFMTDKKKIS ATSIFFESMPYKGGPHNHTIAG VAVALKQAMTLEFEVYQHHV VANCRALEALTELGYQTVTG CSDKHLILVDLHSIKGTDGRRA EKVLEACSIACNKNTCPDDRNT LRPSGLRLGNPALTSGLLEKG FQKVAHFIHRGIELTLQIQSNAG IRATLKEFKERLAGHKYQGC QALQEEVESFTLFLPLPLPDF

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10166	40534	A	10227	2	1355	QLRTSAMTMPVNGAHKDADL WSSHDKMLAQPLKSDSEVYN IHKESNRQRVGLELIASENFAS RAVLEALGSLNNKYSEGYPG QRYYGGETEFIDELETLCQKRAL QAYKLDPPQCWGVNVQPYSGSP ANFAVYTALVEPHGRIMGLDLP DGGHLTRGL\MTDKKKISATSIF F*SMPYKANPETGYINYGQLEE NARLFHPKLIAGTSCYSRNLEY ARLRKIADENGAYLMADMAHI SGLVAAGVVPSPFEHCHVVTTT THKTLRGCRAGMIFYRKGVAV ALKQAMTLEFKVYQHVVAN CRALSEALTELGKIVTGGSDN HLILVDLRSGKT DGGRAEKVL EACSIACNKNTCPGDRSALRPS GLRLGTPALTSRGLLEKDFQKV AHFIHRGIELTLQIQSDTGVRAT LKEFKERLAGDKYQAAVQALR EEVESFASLFPLPGLPDF
10167	40535	A	10228	2	243	GTACNPAWPPPGLAPHLTHYA DLLPGSPFHVALPPPESELWETP DVSLITG\PRLGQTPVTEAVSGR RGIAIAYEDEGSG
10168	40536	A	10229	1	1194	MESMFSSPAEALQRETGVPL LTPLPDL DGVYELERVAGFVRD LGCERVALQFPDQLLGDAVAV AARLEETTGSKMFI LGDTAYGS CCVDVLGAEQAGAQALIHFGP ACLSPPARPLPVA FV/LSSTFCG LGALCQGL*GPEPRPQSACGAA \GEPACAHALDTGKTQDEGAR AGRLRARRRYLVERARDARVV GLLAGTLGVAQHREALAHLRN LTQAAGKRSYVLALGRPTPAK LANFPEVDV FVLLACPLGALAP QLSGSFFQPILAPCELEAACNPA WPPPGLAPHLTHYADLLPGSPF HVALPPPESELWETPDVSLITGD LRPPPAWKSSNDHGSALTPRP QLELAESSPAASFLSSRSWQGL EPRLGQTPVTEAVSGRRGIAIA
10169	40537	A	10230	35	429	KEKRYLVYLGCCDLPEK*ESV* TNPVQPIELSAMMAYPVAALSP HVA/RLNT*MTNVTEKLSF*S*L T*I*V*PHVFSGYCTGQCRSS*A SSSSSSSSSSSSSSSSSSSSSSSS SSSASDK*WAEASPRVR

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10170	40538	A	10231	73	393	RTQAPKLSQGGPRCIPPPKLCL MESMFSSPAEAAALQR\ETGVPG LLTLPDLGRSVALQFPDQLLG DAVAVAAARLEETTGSKMFI\G DTAYGCCVDVLGAEQAGAQAQ
10171	40539	B	10232	191	367	
10172	40540	A	10233	131	1681	RTQAPKLSQGGPRCIPPPKLCL MESMFSSPAEAAALQRET\GVPG LLTLPDLGDGVYELERVAGFVR DLGCERVALQFPDQ\LLGDAVA VAARLEE\TTG\SKMFI/LGVDT AYGCCVDVLGAEQAGAQAALI HFGPACLSPPARLPVAFVLSST FCGLGTLQCQDLWGPKPRPQSAC GAA\GEPACAHAEALATLLRP RYLDLLVSSPAFPQPVGSLSP MPLERFGRRFPLAPGRRLEEY AFYVGGSKASPDPLDPLSRL LLGWAPGQPFSSCCPDTGKTQD EGARAGGLRARRRYLVERARD ARVVGL\LAGTLGVAQHREAL AHLRNLVQAAG\KCSYVLALG RPTPAKLANFPEVDVFVLLACP LGALAPQLSGSFFQPILAPCELE AACNPAWPPPG/LWVPHLTH/Y IADLLPGSPFHVALPPPESELWE TPDVSLITGDLRPPPAWKSSND HGSLALTTPRQLELAESSPAASF LSSRSWQGLEPRLGQTPVTEAV SGRRGIAIAYEDEGSG
10173	40541	A	10234	3	605	AAAREEAAGRDMLAADLRCSLF ASALQSYKRDSVLRPFPA GDCKDFEALLADASKLPNLKEL LQSSGDNPTGPGDLVSLDFYP QKVLTPNPVQ/WECRSFEKDSK S*LGLLTRFLHRTSCLKLST/SD PANAKFYETKGERDLIYAFHGS RLENFHSHHNLHCHLNKTS GEGTYLTSDSLALIYSPHGHG WQH
10174	40542	A	10235	197	895	LGLLTRFLHRTSCLKLST/SDP ANAKFYETKGERDLIYAFHGS LENFHSHHNLHCHLNKTS EGTYLTSDSLALIYSPHGHGW QHSLLGPILSCVAVCEVIDHPD VKCQTKKKDSKEIDRRRARIKH SEGGDIPPKYFVVTTNNQLLRVK YLLVYSQKPPKRASSQLSWFSS HWFTVMISLYLLLLLIVFCGLL ALQDRGLPQVCPQIPCGWRPPS EGSQVFETQPGL

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10175	40543	B	10236	1	1059	
10176	40544	B	10237	226	522	
10177	40545	A	10238	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPKHELTNFKSAA ED
10178	40546	B	10239	101	397	
10179	40547	A	10240	2	253	LQEFGRTRKDPPTTSGPQTDQAR EHLTNFKSSA/CQIPWNSGPRLS E*LLPRSSRLSS*RLT/RAQSPW KPTGQSQMLWVTLTVEGT
10180	40548	B	10241	1	409	
10181	40549	C	10242	1	462	
10182	40550	A	10243	1	861	
10183	40551	C	10244	1	140	
10184	40552	B	10245	1	1773	
10185	40553	B	10246	1	320	
10186	40554	C	10247	1	420	
10187	40555	A	10248	273	485	LGSGDLPWGINPLSSCSLLREK DPLTISGPQTHQPKHELTNFKSG PTENRTVQLTWQPLPEPELEW PKAL
10188	40556	A	10249	508	558	
10189	40557	B	10250	76	358	
10190	40558	C	10251	83	414	
10191	40559	B	10252	1	1111	
10192	40560	C	10253	1	411	
10193	40561	B	10254	1	1054	
10194	40562	B	10255	57	229	
10195	40563	B	10256	1	222	
10196	40564	A	10257	230	1272	LLCSSACKCLMLGLHFVIVGNI CATLKEYSSMLHLDVTMCKN GEKRTRLQKRKKGMPPHPAYE DLNIAAITLPANVVLHQPSGFRT SGQLDPVWWSLDTDAHEIWCQ DPGLGSGDFPWEITPLSSYSLLH EKDPPTTSGPQTDQPKKHLTNF KSKTKETGFIHGPKTPAPVTDW EGSLPLVFNHCRDTSLIHPCFK GVRPRRDACLGPSPLAASPAFL EKGQDLINLAFKVYNNRKKLQ FLASTVRQTAATSPAHKNFQMP EPQRPQGVPEPPPTGACYMCRK SGHWTRNAGSPGFLLSRVPSV WDPTENRTVQLTWQPLPEPELE WPKALCLTDSFPDLLGLAA

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10197	40565	A	10258	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSNNRCRRGCGEIGTLLH CWWDCCLVQPLCKSMWRFLR DLADPAIPLLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
10198	40566	A	10259	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMISIDA EKA FDKIQQLFMLKTLNKL GIDGTY FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSFNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITI QDIGMGMDFM SKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPLAIREMQIKTTMRYH LTPVRMAIHKSGNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTMEYYASIKKNEFMSFAGA* MKLETII
10199	40567	A	10260	1	347	TNKIDRPLARLIKKKREKKQID AIKNDKGDITTDPTETQTTIKEY YKHLYANKLENLEEMDKFFDT YTLPRLNQEEVESLNRPIAGSEI EAIINSLPT/KKSPGPDGFTAKFY QRE

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10200	40568	A	10261	31	809	KPRLNYVKNAEASGADAINW KKG Y/LVMEDEMNE MKREGKF REKRIKRNEQSLQEIW DYVKRP TLHLIDVPETLNAHKRKQERSK TDTLTSQ LKELEKQE QTHSKAS RRQEITKIRAE LKEIET EKT LQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDA IKN DKGDITS DP TEIQT TIREYYKHLYANKLENL EEMDKFLD TYTL PRLNQEEVES LNR PITGSEIVAIINSLPTKKSPG PDGSTAEFYQRYKEEL
10201	40569	A	10262	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLP TKGSPSD*KRISRQ/ KTLQARRQSWFF EKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPT EIQITIREYYKHLYANK LENLEEMDKFLD TYTL PRLNQE EVESVNR PITGSEIEAITNSLPTK KSPGPDGF TAEFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKGRD TTKKGNFRPISLMNI DAKIL
10202	40570	B	10263	1	2265	
10203	40571	A	10264	1	2832	
10204	40572	A	10265	1	2757	

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10205	40573	A	10266	1	2114	MKEKMLRAAREKGRVTHKGK PIRLTADLSAETPQARREWGPFI NILKEKNFQPRISYPDKLSFISEG EIKYFTDKQMLRDFVTTRPVLK ELLKEALNMERNNWWYQPLQKH AKNMPNSIILIPKGRDTTKKEN FRPISLMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIPGMQGW NIHKSINVIQHINRTIDKNHMIIS IDAEKAFDKIQQLFMLKTLNKL GIDGTYLKIRIKYLGILTREV DLFKENYKPLLNEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAISNKLPMFTFFTELEKTTL NFIWNQKRARIAKSILSQKNKA GGITLPDFKQYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYTYLIFDKPEKNKQWGKDSLF NKWCWENWLAVCRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEEILGITIQDTGMGKDFMSKT PKAMATKAKIDKWDQIKLSF CTAKETTIRVNRQPTKWEKIFA TYSSDKGLIFRIYNELKQIYKKK TNNPIKKWAKDMNRPFSKEDIY AAKKYMKKCSPSLAIREMQIKT TMRYHLTPVRMAIHKSGNNR QTESQIMSELPITIASRKIKYLG QLTKDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVK/T WPYCPSPQMYMSPTWQPKTLQ LWRQPKYPWKGTHRRKK
10206	40574	A	10267	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSHAAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNYLQEFLLTP QWHLECQQERTVHSPGKAAEA REPSVIDRHLIQESSNWHLVGA ALGQSFQRKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSELKEHVLQCKEDKNLEK SAIKLELRINKLIQN
10207	40575	A	10268	1	1797	

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10208	40576	A	10269	1	1751	MIISIDAEKAFDKIQPFMLKTL NKLIGIDGTYFKIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLL FNTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQUTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMPPFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTKDKIDKWDLIKL KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKHKMKCSSLAIREM QIKTTMRYHLTPVRMAIHKSG NNRNHLDFKHirilGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA
10209	40577	A	10270	1	4729	
10210	40578	A	10271	1	1428	

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10211	40579	A	10272	1	2718	MALFRVGMTTRRLGHANKFTR DLLVKRLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQQECSSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEEKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQEITKIRAELEKEIE TQKTLQKINESRSWFFEKINKID RPLARLIKKKKREKNQTDITKND KGDIITDPTEIQTITIREYYKHL TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPITGSEIEAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLSQSEKERILPNSSYE ASIIIPKPGRDTTKKENFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVIQHINRTKDKNHMIISIDAE KLISKFSKVSGHKINVQKSQAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMALLP\RFSAIPIKLPM FFTELEKTTLKFIWN/QKRARIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNLYLFDKPKD KKEWKGDSL FNKWCWENWLA ICRKLKLD PFLT PYTKMNSRWI
10212	40580	A	10273	396	1227	SLGRNSTSQKRVGANIQHS*RK EFSTQNFISSQTTLHK*RRNKIL YRQANAERFCHHQACPKTAPE RSTK\LERNNRLPARLIKKKREK NQIDATKNDKGDITDPTEIQT IREYYKHL YANKLENLEEMDK FPD TYTL PRLNQEEVESLNR PITGSEIEAIKSLPTKKRPGDRFTA EFYQRYKEELVPFLLKLFQSTE KEGILPNSFYEASIIIAKPGRDT TKKENFRPISLLNIDAKILNKILA NRIQQHIKKLIHHDQVGFI PGMQGWFNI
10213	40581	A	10274	1	2168	
10214	40582	A	10275	1	1845	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10215	40583	A	10276	1	2877	MENDFDELREEGFRQSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSCDQLEERVSA DEMNMKGEGKFREKRIKRNE QSLQEIWDYVKRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQTITISEYYKHLYTN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRPIITGAE
10216	40584	A	10277	1	1689	MIFSIDA EKAFDKIQPFMLKTL NKL GIDGMYLK IIRAMYDKPA ANIILNGQKLEAFPLKTGTRQG CPLSPLLFNIVLEVLAIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPITSAQNLLKLISNYSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLNIKEDT NKWKNI PCSWVGRINIVKMAIL PKVIYTFSAIPIKLPMFTFFTELEK TTSKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYKATVTKTA WYWYQNRDIDQWNRTEPSEIM PHIYNYLIFDKPDKNKQWGKDS LFNKWCWENWLDIWRKLKLD PFLTPYTKINSRSIKDLHVRPKTI KLEENLGDTIQDIGMGKDFMS KTSKAMATKAKIDKWDLIQLK SFCTAKETTIRVNRQPTWEKIF AIYSSDKGLIFRIYKELKQIYKK KTNSPIKKWVKDMNRHFSKEAI YAAKRHMKKCSSSLAIREMQIK TTLSLPAQVSVV/RHGLSFCWD SRG\CGKSGLFLAYSINFPQSH WDQEQVM
10217	40585	A	10278	1	2142	

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10218	40586	A	10279	1	1722	MIISIDAEKAFDKIQRFMLKTL NKLGLDGLYLKIIIRAIYDKPTAN IILNGQKLEALPLKTGTRQGCPL SPLQFNIVLEVLARAIRQEKEIK GIQLGKEEVKLSLLADDMIVYL ENPIVSAQNLLKVISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWYQKRARITKSILSQRNK AGDITLPDFKLYYKATVNKTA WYWHQNRHIDQWNRTKPSEIT LHIYNLYFFDNPDKNKKWGKD SLFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI KTLEENLGITIQDIGMGKYFMT KTPKAMATKAKIDKWDLIKLK SFCTGKETTRVNRQPTKWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKKHMKKCSPSLAIREMQI KTTMRYHLTPT/RLIVIGIEECLR GKEKLETLYYWNSTDHQQV*W LGWP*WKS DHKKEQPSF

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10219	40587	A	10280	1	2076	MDKFLNTYTIPRLNQEEVESLN RSITGSEIEAIINNLPTRSPGPD GFTPEFYQRYKEELVPFLLKLF QSIVKEGFLPNSFYEGSIILITKS GRDTTKKENLRPISLMNINAKIL NKILANQIQHIKKLIHHEQVDF IPGMQGWFNIRKSINVIQHINRT NDKNHMIISIDAEKAFDKIQQLF MLKTLNKLIGDGTYLKHIRAIYD KHTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLRARIS QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPIVSAQNLLKLIGNF SKVSGYKISVQKSQAFLYTNKR QTESQIMSELPFTIVSKRIKYLGI QLTRDVKDLFKENYKPLLNEIQ DETNKWKNCSWVGRINIVKM VILP/KELEKTTLKFIWNQKRAR IAKTILSQKNKAGGITLPDFELH YKATVTKTACYLYQNRDIDQR NRTEPSEIMPHIYNLYLIFDKSDK NKKWKGDSL FNKWCWENWLA ICRKLKLDPFPPYTKINSRWIK DLNVRPKTIKLEENLGNTIQDI GMGKDFMSKTPKAMSTKAKID KWDLIKLSFCTAKETAIRVNR EPTWEKIFAISYSSDKGLISRIYN EFKQIYKKKTNNPIKKWAKDM NRHFSKEDIYAANRHMKKCSSS LAIREMQIKTTQVGGSEESAS ELGNKLIELDQSEEWGKED

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10220	40588	A	10281	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRKLNLTQNRSTTWKLN NLLDDY WVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKETQKT VQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDIMIVYLENPIVS AQLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
10221	40589	A	10282	1	1996	

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10222	40590	A	10283	1	1778	MIISIDAEKAFDKIQQPFMLKTL NKLGIDGTYLKIIRAIYDKPTAN IIPNGQKLEAFPLKTGTTQGC PF SPLLFNIVLEVLRVIRQEKEIK GTQLGKEEVTLSLFADDMIVYL QNPIVSAQNLLKLIGNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFKWNQKRACIAKSILSQKNK AGGIMLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNYLIFDKPDQNKQWGKDS LFNKWYWENCLAICRKLKLDP FLTPYTKINSRWIKDLNVRLKTI KALEENLGNTIQDIGMGKDFMS KTPKAMATKDKIDKWDLIKPK SFCTAKETTIRVNRQPTKWEKIF ATYSSDKGLISRNYNELKQIYK KKTIGPIKKWAEDMNRHFSKE DTYAAKKHMKKCSSSLAIREM QIKTTMRYHLTPVRMVIKKSG NNRCWRGCGETGTLSHCWWD CKL/IQPLW/RFLRD*GPKTGGD S*MIQVKY*PQQKKKGCPNA
10223	40591	A	10284	3	2875	

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10224	40592	A	10285	1	1838	MIIPIDAEKAFDKIQPFMLKTL NKLGIHGMYLKIIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LPPLLFNIVLEILARAIQEKEIK GIQLGKEEVKLSLFADDMIIYLE NPIVSAQNLLKLISNFSKVSGYK INVQKSQAFLYTNNRQTESQILS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCLSIGKINIMKMAILPKVIY RFNAIPIKLPMTFFTELEKTTLK FIWNQKRARIAKTILSQKNKDG GITLPDFKLYYKATVTKTAWY QYQNRDIDQWNRTEPSEIIPHV YNHLIFDKPDKNKKWGKDSLF NKWCWENWLAICGKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKI PKAMATKAKIDKWNLIELKSFC TAKETTISVNRQPTWEKIFAIC LSDKGLISRIYKELQQRHKKKT NNPIKKWAKDMNRHFSKEDIY AANRHMKKCSSSLAIREMPIKT TMRYHLTPVRMAIHKSGNNRC WRGCGEIGTLSHCWWDNLVQ PLWKAVWRFLKDLELEIPFDPA ISLLG/IYPKDYKSCCYKDTCTQ STFTCRQHLPL
10225	40593	A	10286	1	2046	

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10226	40594	A	10287	1	1700	MEDEMNMKQEGKFREKRIKR NEQSLQEIWVYVVKRPNLRIGV PESDGENGTKLENTLQDIIQENF PNLARQTNIIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKMS RAAREKEIQTTIREYYKHLNAN KLENLEEMDKFLDTCTLPRLNQ EEVESLNRTVTGSEIVAIINSLPT KKSPGPDGFTAIFYQRQSESQI MSEFPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYTFNAIPIKLPMTFFTELEKTT FKFIWNQKRAHVAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYSYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI ETLEENLGITIQDIGMGKDFMS KTSKAMSTKAKIDKWDLIKLKS FCTAKETTIKVNROPTKWEKIF ATYSSDKGLISRIYNELKQIYKK KVTNNPIKKWVKDMNRHFSKE DIYAAKRHMKKCSSSLAIREMQ IKTTMRYHLTPV
10227	40595	A	10288	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQ

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10228	40596	A	10289	1	2019	MDTIKNDKGDITTDPTIEIQTIR EYYKHL YANKLENLEEMDKFL DTYTL PRLNQEEVESLNR PVRG SEIEAIINSLPT/KKSPGPDEFTAE FYQRK\AFDKIQQAFTLKT LNK LVIDGTYRKIIRAICDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVS GYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLG IQLTRDVKD LFKENYKPLLNEIKEDTNK WEN IPCSWVGRINIMKMAILPKVIYR FNAIPIKL PVAFFTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSL FN KWCWENWLDIWRKLLKLDPFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNTILDIGMGKDFMSKTP KAMATKAKIDNWDLIKLSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLSILATTRDGN PAAVENVLHIKATLSFQQTHKA FFYFQPS
10229	40597	A	10290	1	3144	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQT HSKASRRQ EITKIRAE LKEIETQKTLQKINES RSWFLERINKIDRPLARLIKKR EKNQIDVIKNDK
10230	40598	A	10291	1	2274	
10231	40599	A	10292	1	2250	
10232	40600	A	10293	1	822	

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10233	40601	A	10294	1	2605	MKAEIKMFFETNENKDDTTYQN LWDAFKAVCRGKFIALNAYKR KQERSKIDTLTSQLEKEKQEQ SHSKAGRRQEITKIRAELEKET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITTNPTETIQTIREYYKHLA NKLENLEEMDTFLDTYTLPRLN QEEVGS LNTPITGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL PGRVPTKKENFRPISLMNIDAKI LNKILANRIQQHIKKLIHHDQV GFIPGMQGWFNIRKSINVIQHIN RAKDKNHMIISIDAEKAFDKIQ QPFMLKTLNKLIGDGYFRIIRA IYDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYNFYVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEIMPHIYNILIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDI GVGKDFMSKTPKAMATKAKID
10234	40602	B	10295	111	2440	

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10235	40603	A	10296	1	1795	MIISIDAEKAFDKIQPFMLKTL NKLSIDGTYFKIIRAIYDKPTANI ILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLRARIRQEKEIK GIQLGKEEVKLSLFAHDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSGVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKGACITKTILSQKNK VGGITLPDFKLYYKATVTKTA WYWYQ\NRDIDQWNRIKPSEIM PH\IYNYLIFDKPEKNRQWGEDS LFNKWCWETWLAIWRKLKLDLP FLTLYAKIN*RWIKDLNVRPKTI KTLEENLGIT\IQD\IGMGKDFM SKTPKAMATKAKIDKWDLIQL KSYCTAKENTIRVNRQPTKWE KIFATYSSDKGLITRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKKHMKKCSSSLAIRE MQIKTTMRYHLTPVRMAIIQKS GNNRTKRTIYRRNDDDDDDND NDDDSLMSLSRTEIPFSSYSELN VVLHKPRPEPSASTILLHTA
10236	40604	A	10297	1	2851	
10237	40605	B	10298	1	3220	

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10238	40606	A	10299	1	2047	MENDFEELREEGFRRSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTQKCLKELMELKTKARELR EECRSLRSRCDQLEERVVSAMED EMNEMKREGKFREKRIQRNEQ SLQEIWDYVKRPNLRLIGVPET LHPRDEAHLKNLIDAIKNDKGD ITDPTEIQTIREYYKHLANK LENLEETDKFLDTYTLPRLNQE EVESLNRPIGTSEIVAIINSLPTK KSPGPDGFTAIFYQRYKEEL/PD KQLQQSLRIQNQCTKITSILIHQ QQTNREPHE*TPIHNCFKENKI PRNPTYKGCEGPLQGELOTTAQ GNKRGYKQMEEHSMMLGRKN QYHENGHTAQGNLQIQCHPH* ATNAFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTILQGYSNQNSMVLVPKQR YRSMEQNRALRNNAAYLQLSD L*QT*EKQEMGKGFP**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NHKNPRRKP RHYHSGHRHGQGLHV*NTKSN GNKSQN*QMGSN*TKELLHSK KKKNY*QTEQATCKMGFHN LLI*QRANIQNLQ*TQTNLQEK KQPHQKVGKGHEQTLLKRRHL CSQK\NHEKMVTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS

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10239	40607	A	10300	1	2704	MYSHVITVCRHVKNGDILLNR QPTLHRPSIQHRARILPEEKVL RLHYANCKAYNADFDGDEM AHFPQSELGRAEAYVLACTDQ QYLVPKDGQPLAGLIQDHMVS GASMTTRGCFRTREHYMELVY RGLTDKVGRVKLLSPSILKPFPL WTGKQHINRTKDKNHMHSIDA EKAFDKIQPFMLKTLNKLID GTYLKIIRAIYDKPTASILNGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKSIQLGKE EVKLSLFADDMIVYLENPTVSA QNLLKLMSNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSGLP FTITSKRITYLGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNIP CSWVGRINIVKMAILPKVIYRF NTIPIKLPMFTLLEKTTLKFI WNQKRAHIAKSILSQKNKAGGI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMPHI/Y YNYLIFDKPEKNKQWGKDTLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKT PKATATKAKIDKWDLIQLKSFC TAKETTIRVNRQPTWEEIFAIY SSDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSEEDIYA AKKHMKKCSSSLAIREMQIKTT MRYHLTPVRMVIKKSGNNRC
10240	40608	B	10301	1	3345	

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10241	40609	A	10302	248	2623	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMLLST CDIDLTAARRAWLGCLPTKSP GPDGFTAIFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASILI PKRGRDTTKKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFIPGMQGWFNICKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKLIGIDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFK LYLQGLQ*PKTAWYWYQNRD IDQWNRTEPSEITPHIYNYLIFD KPEKNKQWGKDSL FNKWCWE NWLATCRKLKLDPFLTPYTKIN SRWIKDLNVRPKTIKTLEENLGI TIQDIGVGKDFMSKTPKAMAT KAKIDKWDLIKLSFCTAKETA IRVNRQPTTWEKIFATYSSDKG LISRIYNELKQIYKKK\TNNPIKK WAKDMNRHFSKEDIYAANKH MKKCSPSLAIREMQIKTTMRYH

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10242	40610	A	10303	1	2467	MGDFNIPLSTSDRSTRQKVNKD TQELNSALHQADLIDIYRTLHP KSTEYTTFFSAPHHTYSKIDHIVG SKALLSKCRRTEIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNLL LLNDYWVNNEMKAEIKMFFEI NEDKDTTYQNRWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI TEIRAELEKETQKTLQKMNES RSWFFKINNIDRLLARLIKKKR EKNQIDAIAKHNKGDITTNPTIEQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQEQVESLNRPI TGAEIEAIINSLRTKKSPG\PGGF TAEFYQRYKEKLIVLEVLARAI RQEKEIKGIQLGKEELKLSLFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYSNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEV KEDTNKWKNI PCSWIGRINIVK MAILPKVIYRFSAPIKLPMFTFT ELEKTTLKFIWNQKRS\RIAKSIL SQKNRAGGITLSDFKLYYKATV TKTAWYWYQNRDIDQWNKTE PSEIMPHIYNYLIFDKPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDTGM GKDFMSETPKAMATKDKIDKW DLIKLKSFCTAKETTIRVNRQPT
10243	40611	A	10304	2	2480	
10244	40612	A	10305	1	4793	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSHDS AIKLELRINKLTQSRSTTWKLN NLLLNDYWVNNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
10245	40613	A	10306	1	4320	

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10246	40614	A	10307	1	3229	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLQ PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNL\WDAFKAV CRGKFIALNAHKRKQERSKIDT\ LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKEIETKK\TLQKINE SRSWFFERIKKTDRLARLIKKK REKNQIDTI
10247	40615	A	10308	1	3392	MGDFNTPLSTLDRSRQKVNK NTQELNSALHQVQLIDYRTLH PKSTEYTLFSAPHHTYSEIDHVV GSKALLSKCKRTEIITNCLSDHS AIKLELRIKKLTQNCSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYPNLWDTFKAVC RGKFIALNAHKRKQERSEIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFEKINKIDRLARLIKKKRE KNQIDSIKNDK
10248	40616	A	10309	1	4137	MGKKQNRKTGNSKKQRASPPP KEHSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITDIEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSADEMNEMKQ EGKFREKRIKRNEQSLQEWDY VKRPNLPPIDVPESDRENGTKL ENTLQDVIQENFPNARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTSG
10249	40617	A	10310	1	5195	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIHIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE IMKIRAELEKEIETQKTL\QKINE\ SRSWFF\ERINKIDRLARLIKKK REENQID\AI

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10250	40618	A	10311	1	2958	MKQEGKFREKRIKRNEQSLQEI WDYVKRPNLHLIGVPESDREN GTKLENTLQDIIQEDFPNLARK ANIQIQEIQRTPQRYSSRRATPR HTIVRFTKVEMKEKMLRAARE KGRVTHKGKPIRLTADLSAETL QARRELNQEEVESLNKPVTGSE VVAIINSLPTKKSPGPDGFTA YQKYKEEPVPFLLKLFQSIEKE GILPNSFYEASIILIPKGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKK
10251	40619	A	10312	5211	7687	TDTSQKKTfYAAKRHMKKCSS SLAIREMQIKTTYHAGPDGFTA EFYQRYKEELVPFLLKLFQSIEK EGILPNSFYEASIILIPKGRDTT KKVENFRPISLMNIDAKILNKILA KRIQQHIKKLIHHDQVGFI QGWFNIRKSINVIQHINRAKDK NHMIISIDAEKAFDKIQPFMLK TLNKLGDGTyFKIIRAIYDNPT ANIILNGQKLEAFPLKTGTRQG CPLSPLLFNIVLEVLRARIRQEK EIKGIQLGKEEVKLSLFADNMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQTE SQIMSQLPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSGIEGRINIVKMAIL PKNWKKTTLKFIWNQKRARIA KSILSQKNKAGGITVPDFQLYY KATVTKTAWYWYQNRDIDQW NRKEPSEIMPHIYDSLIFGKPKD NKQWKGKDSL FNKWCWEDWLA ICRKLKLDPFLTPCTKINSRWV KDLNIRPKTIKTLEENLGNTIQD IGMAKDFMSKTPKAMATKAKI DKWDLIKLSFCTRIAKEPTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYA AKKHK KCSSSLAIREMQIKTTMRYHLT PVRMAIIKKSGNNRCWRGCGE TGTLHCWWDCKLAQPLWKS

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10252	40620	A	10313	1	4525	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH HKSTEHTFFAAPHTYISKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN LLNNYWVHNEMKAEIKMFFE TNKNKDTTYQNLWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKQLEKQEQTHSKASRRQEI TKIRGELKEIETQKTLHKINESR SWFFERINKIDRLLARLIKKKRE KNQIDAIINDKG
10253	40621	A	10314	1	1185	MEDIKRTQKNLSEMKATLAEM KNTLDGINDHGRDSRRKIRKLQ DNGGDDPTGNTQRKKNLINGP SLSVHIGEKRGRRSWAETLTP LQTKALRLGPTTPSARRKCGIV PNLQTRKTEAYRYPDTHPGETP VGTAVLSIQPKLESVIDVRVN MSSFHPEPELQPTQTSVLPDQD ATVAGSTTKFPEEQEARQGRVR ERPATRERPVPGGVSVPLHHI HFLRGPSLPLASLTRITVLEAVV CFFSVWSIVGLSGFHTYLISSNQ TTNEDIKGSWSNKRKGKENYNP YSYGNIFTNCCVALCGPISPR/LSHTGQRPTPIECEPHNLVTSA ETLLASKPD/PTEEGTSSPTRRS QQHPPMASPCTGPRSHRVTCTL EKREEEEGVGQRLSPLCKPRL
10254	40622	A	10315	44	302	GLLGPGPPTAC*CGPHCGIHPES SPQSWCLCHSHRSSRAPPLARL SGDRHPGWRTWGGRDARSVA RGQWWCLVEPVLPFSTRSAFW

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10255	40623	A	10316	3	2182	IRDPGKKPVMFLFHGGSYMEG TGNMFDGSLVLAAYGNVIVATL NYRLGVLGFLSTGDQAAKAGNY GLLDQIQALRWLSENIHAFGGD PERITIFGRYSQPGLSYHIAFGPV VDGDVVPDDPEILMQQGEFLN YDMLIGVNQGEGLKFVEDSAE SED/GAFDFTVSNFVDNLYGY EGKDVLRETIKFMYTDWADRD NGEMRRKTLLALFTDHQWVAP AVATAKLHADYQSPVYFYTFY HHCQAEGRPEWADAAHGDELP YVFGVPMVGATDLFPCNFSKN DVMLSAVVMTYWTNFAKTGD PNQPVYDTKFIHTKPNRFEEV VWSKFNSKEKQYLHIGLKPRL WSRFRGVLYQVFHDTICEKEAP KSSLLRKQTQPPKKQSSPAVHL RCTMDPVMMTVSPPAHRHRR RGSPTRCAHCPVAWAPDDE KPHQYPAICSYHWDVPEDWEG FQHTQGTWVPWSQDAPESPPQ TIRFQPTVEERPLKTGIWSELGL RAYVYPVNPPPSPEAPSHKNG RJYVDARDMRRRLREL TREVE ALSGCYPLASGSSTAETSKNW VYRSLTGSQKMSQLHRVPFFD QEDPDSYLEEEDNLFPYPKY RRGWGGFYQRAGLPSNVGLW GHQGGILASLPPPSLYLSPELRC MPKRVEARKCQDLGDSILLLLG SFILLNVWINVVTLWKHLKSS
10256	40624	B	10317	37	241	
10257	40625	A	10318	2	815	
10258	40626	A	10319	1	943	RAGGQGVG*GWGPPSVPCSVH GGKGL/PPEGPGQVTHLEFGR GDGLLTPWWPLTGDGRGSA/S LASQRTCSQ*GMWLPAAQSPS HPGPAGTVGQSHLHL*GLLPG PPHCLLMRPTLRDSSRVFTSKL VSVPPQVQGGPTTRKTVWRS ASWMENLGRKGCQVCSTWPM VPPGGACTIONEWEADRVTPG GHRGSSCSHSAAGGANAAPHG PRGRPGGHAAAGGRHSTDGRS SCSPRPDPGAARPOS AVHTDY RPSLGTFLAQPFGESKSDQSA PGIRGQKAPLAVARRGQQT RGQARGRGRGTRPR

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10259	40627	A	10320	39	621	SCPEEEESSLLSPGTSWPLHAW ACSAAQVTGRERVVADWPGY HPGGPTAPHWRAGPLSDKTRPS RDVGTWDTGRAGCPPPPGRNP GPPDQRKALGVVVTSGSGLG NGTPNSCLSPRQCWIQLGGSS RTGPPPPGSVPEAAVSCPGHHT LFGLRSGAGKIQG*LLGPWEL GQAGTEPPLPLAPPPHRSCG
10260	40628	A	10321	1	496	AAATYVQNQSEDCLYLNLVVP TEDGPLTKKRDEATLNPPDTDI RDPGKKPVMFLHGGSYMEGT GNMFDGSVLAAYGNVIVATLN YRLGVLGFLSTGDQAAKGNYG LLDQIQALRWLSENIAHFGGDP ERITIFGSGAGASCVNLLILSHH SEGLFQKAIAQSGT
10261	40629	A	10322	1	4304	MLPVWFTDNLGAAATYVQNQ SEDCLYLNLVPTEDGPLTKKR DEATLNPPDTDIRDPGKKPVMFL HGGSYMEGTGNMFDGSVLA AYGNVIVATLNRYRLGVLGYS QPGLSYHIAFGPVVDGDVVPDD PEILMQQGEFLNYDMLIGVNQG EGLKFVEDSAESEDGVSASAFD FTVSNFVDNLYGYPEGKD/DW ADRDNGEMRRKTLLALFTDH QWVAPAVATAKLHADYQSPV YFYTFYHHCQAEGRPEWADAA
10262	40630	A	10323	1	2765	MDVGFSRTTVQTLRSRSHCKNIK QKISQWEGRANGISNPEKWCPK DFGVRYNCHQEIRLKKNPJAER KSKNLDVTSRENVGLDINENTK SHDQSENENKKHEYDDTHFFK NESESNWVCSRVEIESCKEDV LDPETSLPPGNFYTSQILWKKIE ALPPDKLLNLALEHCDSEKEL NFRVLDSSYGITKSLENIYSEPE GQECGPSINPLPKPRRTFRYLSE SGVTPYKERNCDKKYCENNSC AQSSLASSQEPE
10263	40631	A	10324	2	597	RWLIPKVMRIYDTQKKMDREA SQAALQKMLTLLMLPPTFGDLL REEYIGDNGDPQTLQAQFQEM MADSMFVIPALQVAHFQCSRA PVYFYEFQHQP SWLKNIRPPHM KADHVKFTEEEQLSRKMMKY WANFARNGNPNGEGLPHWPLF DQEEQYLQNLQPAVGRALK HRLQLWKKALPQKIQELEEPE ERHTEL

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10264	40632	A	10325	2	1766	PGQPLGEQQRVRRQRTETSEPT MRLHRLRARLSAVACGLLLLL VRGQGQDSASPIRTTHTGQVLG SLVHVKGANAGVQTFLGIPFAK PPLGPLRFAPPEPPESWSGVRDG TTHPAMCLQDLTAVESEFLSQF NMTFPSDSMSSEDCLYLSIYTPA HSHEGSNLPVMVWIHGALVF GMASLYDGSM LAALENVVVI IQYRLGVLGFFSTGDKHATGN WGYLDQVAALRWVQQNIAHF GGNPDRVTFGESAGGTSVSSL VVSPISQGLFHGAIMESGVALLP GLIASSADVISTVVANLSACDQ VDSEALVGCLRGKSKEILAIN KPFKMIPGVVDGVFLPRHPQEL LASADFQPVPSIVGVNNNEFGW LIPKVMRIYDTQKEMDREASQA ALQKMLTLLMLPPTFGDLLREE YIGDNGDPQ\TLPKRK\QKMM ADS\MFVIPALQVAHFQ\CSRAP VYLPTSSQH\QPSWLKNIRPPH MKADHGDELFPVFRSFFGGNY IKFTEEEEQLSRKMMKYWANF AR\NGNPNGEGLP\HWP\LFDQE EQYLQNLQLAVG\RALKAHRF \QFWKKALPQKIQ\ELEPEERH
10265	40633	A	10326	2	435	ILAEFGSLHLEFLH\TELSGNQV FAEKVRNIRKVLKIEKPFGLYP NFLSPVSGNWWQHVS VGGLG DSFYEYLIKSWLMSGKTDMEA KNMYEAELET/HKLGPEAFWF NSGREAVATQLSESYYILRPEV VESYMYLWRQTHNTK
10266	40634	A	10327	3	583	

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10267	40635	A	10328	1	1299	MHLNQLPPILSRLGAVGFFGSM KAHLVSVSRQVRNIRKVLKIE KPFGLYPNFLSPVSGNWWQLPI PGSVAAGEMPASYPYRHRPE VRRVCEALPHHVSVGGLGDSF YEYLIKSWLMSGKTDMEAKN MYEAELEAIETYLLNVSPGGLT YIAEWRGGILDHKMGHLACFS GGMIALGAEDAKEEKRAHYRE LAVQITKTCYESYAR\SDTKLGP EAFWFNSGREAVATQLSEE/YT YILRPEVVESYMYLWRQTHNP SYR\EWGWEVVLAEKYCRTE AGFSGDSKTCYSRHPQPRTTSR QSFFLAETLNRCLVSACNGPDT GLEARDTAESETVISPAVKGSR GEKAMVRETDKPAKIGKSK NGKSDLKAASKMDAQFRSLCF EEVTPLWFEEKVLEMNGPASPSV SPGGLSLEVWSLVMWHKDARP
10268	40636	C	10329	186	401	
10269	40637	A	10330	194	482	
10270	40638	A	10331	224	495	
10271	40639	B	10332	138	1810	
10272	40640	A	10333	1	1351	MGGVGEPGPREGPAQPGAPLPT FCWEQIRAHDPGDKWLVIER RVYDISRWAQRHPGGSRLIGHH GAEDATDAFRAHQDLNFVRK FLQPLLIGELAPEEPSQDGPLNA QLVEDFRALHQAEDMKLFDA SPTFFAFLGHILAMEVLAWLLI YLALGPGWVPSALAAFILAIQ AQSWCLQHDLGHASIFKKSWW NHVAQKFVMGQLKGFSAHWW NFRHF\QHHAKPNIFHKDPDVT VAPVLLGESSVEYGKKKRRYL PYNQQHLYFFLIGPPLLTLVNFE VENLAYMLVCMQWADLLWA ASFYARFLSLSYLPFYGVPGVL LFFVAVRVLAE\HWFVWITQM NHIPKEIGHEKHRDWVSSQLAA TCNVEPS\LFTNWFSGHLNFQIE HHLFPRMPRHN\YSPVAPLVKS LCAK\HGLSYEVKPF\TALVDI VRSLKK\SGDIVLDAYLHQ
10273	40641	A	10334	43	399	

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10274	40642	A	10335	1	2229	FLK VCPQNNAETFGCLGTG\EK GDRGNQTQKP\LHYKSWSLFHR SCPRDFYGSKVGDFFQKENG G\GES\IYGGFFFEDEGVSLVKDH\ KEFLLSMANRGKDTNGSQFFIT T\KPTPHLDGHHVVFGQV\ISGQ EVRREIENQKTDAAASKPFAEVR ILSC\GELIPKSKVKKEEKKRHK SSSSSSSSSSSDSDSSRYS\QSSSDS SDSESATEEKS KKRKKKHKNS RKHKKKKKKRKKSKKSASSES EAEN/LLEAQPPLFRPEEIP IPENRFLMRK\SPKADKERKN RERERERECNPPNSQPASYQRR LLVTRSGRK\LKGRGPRRYRTPS RSRSDLFRRS\ETPHWRQEM QRA\QMRVSSGER\WIKGDKS ELNEIKENQRSPVRVKERKITD HRNVSESPNRKNEKEKKVKDH KSNKERDIRRNSEKEDKYKNK VKKRAKSKSRKSKEKSKSKER DSK\HN\RNEEKRMRFKELKGR DHENVKEKEKQSDSKGKDQER SRSEKSKQLESKSNEHDHKS KEKDRRAQSRSECDITKGKHS YNSRTRE\RSRRRDSSSRVRSRP HDRDRSMK\EYHRYRDQVYS RRVRSRSRERRTPGRSRSDR RRRRDRSRSSEREDSQRNKDK YRNQESKSSHRKENSESEKRM YSKSRDHNSNNSREKKADRD QSPFSKIKQSSQDDELKSSMLK
10275	40643	A	10336	3	3366	

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10276	40644	A	10337	3	2431	GCLQELSVLFARGEPRGPCHNL LHYMLALIGVPEVFWAFLFHCS LGLEEEKLAPLIKGEKIVWLRS SFYFQHCLVDKSTLLPSSSVSLG IFHEEKNSGEFPIFAKAVRLALV PLRYVKLEDRDNWISVDSVTSE IKLAKLPDFESRYVQNGTYTVK IVAISEDYPRKTITGTVLINVEDI NDNCPTLIEPVQTICHDAEYVN VTAEDLDGHPNSGPFSSVIDKP PGMAEKWKIARQUESTSVLLQQ SEKKLGRSEIQFLISDNQGFSCP EKQVLTTLTVCECLHGSIGCREA QHDSYVGLGPAAIALMILAFLL LLLVPLLLLMCHCGKGAKGFTP IPGTIEMLHPWNNEGAPPEDKV VPSFLPVDQGGSLVGRNGVGG MAKEATMKRKVSSASIVKGQH EMSEMDGRWEEHRSLLSGRAT QFTGATGAI\MTTETTITARATG ASRDVAGAQA\AAVALNEEFLK NYFTDKAASYTEEDENHTAKD CLLVYSQEETESLNASIGCCSFI EGELDDRFLDDLGLKFKTLAEV CLGQKIDINKEIEQRQKPATETS MNTASHSLCEQTMVNSSENTYS SGSSFPVPKSLQEANA\EKVTQEI VTERSVSSRQAQKVATPLPDP ASRNVIATETSYVTGSTMPPTT VILGPSQPQSLIVTERVYAPAST LVDQPYANEGTVVVTERVIQPH GGGSNPLEGTQHLQDVPYVME
10277	40645	A	10338	5	354	RPRLTSQDIKKPDC/DGEDAIGR GFECDSLHLEKIVHFALHLEKN VNQSLLELHKLATDKNDPHLC DFIETHYLNEQVKA\IKELGDHV TNMHEMGAPDSGVAEYLFDKH TLGDSDNES

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10278	40646	A	10339	1	2024	GEALMYHHTHFSELLDEFSQNVL GQLLNDPFLSEKSVSMEVEPSP TSPAPLIQAEHSYSLCEEPRAS PFTHITSDSFNDDEVESEK WY LSTDFPSTSIKTEPITDEPPPGLV PSVTLTITAISTPLEKEEPPLEIEQ WGLIPRARPLFPKIKLEPHEVDQ FLNFSP\KEAKHLHIFPSWA ACT CGSSGNSAIRIILAYSLALRVPT ETKKPRDLFGKTGREKGKEETS REKLYVAERERKAPVDHLHLPP TPSSHGSDSEGSLSPNRLHPF SLPQTHSPSRAAPRAPSA LSSSP LLTAPHKLQSGPLVLTEEEKR TLIAEGYPIPTKLPLSKSEEKAL KKIRRKIKNKISAQESRRKKKE YMDSLEKKVESCSTENLELRKK VEVLENTNRASHGELVIGVLGK GRRWDPLLTSPHAGDQCLGSV QGWAGECTPRQLDGSRTTLISE EDPGSPMGGEALGAIVSYA WRGREALHASRVGAVIQAPIA AGSDICLSDIRESATSSQTNISVT RTLLQQLQKLQTLVMGKVSRT CKLAGTQTGTCLMVVVL CFAV AFGSFFQGYGPYP SATKMALPS QHSLQEPYTASVVR SRNLLIYE EHSPPEESSSPGSAGELGGWDR GSSLLRVSGLESRPD VDLPHFIIS NETSLEKSVLLELQQHLVSAKL
10279	40647	A	10340	1	489	

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10280	40648	A	10341	1	2665	MESTLTLATEQPVKNTLKKY KIACIVLLALLVIMSLGLGLGLG LRKLEKQGSCRKKCFDASFRGL ENCRCDVACKDRGDCCWDFED TCVESTRIWMCNKFRCGETRLE ASLCSCSDDCLQKKDCCADYK SVCQGETSWLEENCDTAQQSQ CPEGFDLPPVILFMSMDGFRAEYL YTWDTLMPNINKLKTGCIHSKY MRAMYPTKTFPNHYTIVTGLYP ESHGIIDNNMYDVNLNKNFSL SKEQNNPAWWHGQPMWLTA MYQGLKAATYFWPGSEVAING SFPSIYMPYNGSVPFEEISTLL KWLDLPKAERPRFYTMFEFP DSSGHAGGPVSARVIKALQVV DHAFGMLMEGLKQRNLHNCV NIILLADHGMDQTYCNKMEYM TDYFPRINFFYMYEGPAPRIRA HNIPHDFFSFNSEEIVRNLSRK PDQHFKPYP LTPDLPKRLHYAKN VRIDKVHLFVDQQWLAVRSKS NTNCCGGNGHGYNNFEFRSMEAI FLAHGPSFKEKTEVEPFENIEVY NLMCDLLRIQPAPNNGTHGSLN HLLKVFPYEP SHAEEVSKFSVC GFANPLPTESLDCFCPLQNST QLEQVNQMLNLTQEEITATVK VNLPFGRPRVLQKNVDHCLLY HREYVSGFGKAMRMPMWSSY TVPQLGDTSP LPTVPDCLRAD VRVPPSESQKCSFY LADKNITH
10281	40649	A	10342	590	900	PLYSATVP S AFC SGQ/LVPHIKS FCRLNIFNR*LIELRHLVFFVLLL FRDLQHIMACNMRDAVRFFVC FLVIFFREGLSRSSCQKCSRKSQ NCGLFYNNFFDVHVVH
10282	40650	A	10343	1	804	
10283	40651	A	10344	207	299	
10284	40652	A	10345	738	1007	EDASCDEGSTARAVHSMEPAG ARNRQKPHPFQVRGAEPHPW* RCSHPAVAVDPGIHALSGKPLC SWRLGSDLPTVWPLPTPDPPVS VS
10285	40653	A	10346	150	509	QLPAGSGEGPYHLEGQLSYCHR GGEKALAAALLSSPTSKTRSPSEP DPEQDEQKLRFCRHLYGQQP RSPVEIRLQHVAIA YQTHHAYD *FVQLYNQHVAQPVLFFPYPGA VVALLSRHL

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10286	40654	A	10347	120	620	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKLHLLGDNRYPIW IMQPSAHHPARQPEHDNHFR*V QQLYDGDSHRQFL*HQILFDRT PVSVDQSVEKKG*DHPVRPQ*A APGHVHYLTIPERSSQHYHPGA LQE*TSHPDHIQARGSILASVLS GSDRWRRTYRCL
10287	40655	A	10348	599	1185	MCQNLMTHSKSTEWKITKRFL TETEKHIRTFSSLSMKAIHHPA/H NHTLRDPHYVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFRKESQKLQSSAKKR DAELANGALGIIELNNDYTSEK SNEAADHFKHVPQAKGNNVVI TSYMTNRGFFEDKKATFAPSFL MNIKGNKTSVVKNSILEQGQLT
10288	40656	B	10349	1	975	
10289	40657	A	10350	1	1080	
10290	40658	B	10351	58	1128	
10291	40659	B	10352	1	1029	
10292	40660	A	10353	10	108	
10293	40661	B	10354	208	2237	
10294	40662	A	10355	1	1153	
10295	40663	A	10356	1026	1274	LHIEKSNEAADHFKHVACHR*R *ACTCHCNNPWFRPLPQPD TSATVEPPLYPIRSRGRTRKPAE GSRAPGCCCCQRP GK
10296	40664	A	10357	434	1128	MCQNLMTHSKSTEWKITKRFL TETEKHIRTFSSLSMKAIHHPA/H NHTLRDPHYVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFRKESQKLQSSAKKR DAELANGALGIIELNNDYTLKK VMKPLITSNTVTDEIERANVFK MNGKWYLF TDSRGSMTIDGI NSNDIYMLGYVSNLTGPYKPL NKTGLVLQMGLDPNDVTFTYS HFAVPQAKSNNVVNYGA
10297	40665	A	10358	300	491	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKLHLLGDNRYPIW IMQPSAHHPARQPEHDNHFR*V QQLYDGDSHRQFL*HQPAQKY FQQIHSAI GLHNADHVHKLHLLG DNRYPIWIMQPSAHHPARQPEH DNHFR
10298	40666	B	10359	1	1226	
10299	40667	A	10360	1369	1548	
10300	40668	A	10361	1	1365	

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10301	40669	A	10362	1560	2384	MCQILMTHSKSTEWIHKRFLTE TEKHIRTFSSLSMKAIHHPA/HNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DIYMLGYVSNLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGNNVVITSYMTTRGFFE DKKATKAPSFLMNIKGNKASV VKNSILEQGGQLAVN
10302	40670	B	10363	783	881	
10303	40671	A	10364	1	1359	
10304	40672	A	10365	1512	2010	ENFPHQPAQKYFQQIHSAIGLH NADHVHKHLLGDNRYPIWIMQ PSAHHPARQPEHDNHFR*VQQL YDGDSHRQFL*HQILFDRTPVS VDQSVEKKG*DHPVRPQ*AAP GHVHYLTIPERSSSHYPGALQ E*TSHPDHIQAK*WHYRIGHYS YARN*RIHHRGSWCR
10305	40673	A	10366	62	368	TGARRVPWPRRGARLRGRARA RSDSGSAGDQPPSFPWWGW RWVTTAASPANLWPSVARSTM VDRAINL/FFLKMKGDLALTED KREQAQNEQSAWKFTPGR
10306	40674	A	10367	2	305	CTINNPKSF/HGVGFKQHAPQA LTEIQKFAMKEMGTPDVRIDTR LIKAVWAKGIRNVPYRIRVRLS RKRNEDEDSPNKLYTLVTYVP VTTFKNLQTVNVN DEN
10307	40675	A	10368	129	283	HLILLFLKHKYCFAREEEEEK*R GVGGEEEEEEEEEEEEEEEEEEI FKSIVY
10308	40676	A	10369	777	1755	DIWDQTEHQSSGPWSYGTSTDP E\PTSDLAIVFEKRGGEEEEEE KEEEEGR\EEEEKEEEE\GRRR EEEKEEEEEEEEE\GRRAQEEEE KKEEEEEEEEEWCLGEEESQPG HAEVPSPHKMGA LTRVEGV KEQEA KLLRSSDL MKGDFSSTS QHPPQCSKRTNSES NADAKSKK KERPIMTFRQRKTFRIRLPLPQ GRIAGSNKLSAKLCTDGRGAG DVGVL TNV MLKRLHFTIDHFLF KIIQMSP\$ASWNLWSLLDQDSL KCQICLEGYAQGGKPDVQLLPP RLTADWKGHRWGQMMGLDE KLTPSSVMVTSVALFWFEVSAQ

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10309	40677	A	10370	1	444	
10310	40678	A	10371	1	3799	MNRQLSKEDIQMANKHEKML NITNDQGNANQNHNAIQPYSC KNGHNRKIDVSMNMVNREHFY TAVHKASDLSFKPTSEKDLDTK LQANFPNLVKAPDKARICFCGK PYQPYVQGSPNSPVEIVENEPSQ LLHFLCVGSSKEEIDLGNPKGS QHTGLGHSMGKCNFYFLPILLV HGWKSHLHPCVASMKVAGTQ RTQDQDEAQEKEKRDKRKAEA LVAALQTYKTQNPQGAPANCY KCGKLGHFKKDCHSSKRKPL
10311	40679	A	10372	1	990	MTQKKNQTEQKEQKNEQKKQ HNERKEHKKKQTEYKTHETNR PRKTERAEHDEQKRENEGKRR RHKKRT/RERKKTNEETETRK REKPEQARQARKEKQKRQRGE RQ\KEEKKRKNRQENEEEEAN EQDRREQEETRKRGRPRKRRE HKEEEGRRERKKRKRKTKEKG RRAQQKERREEEQQRRRRRR GKRKKNESEDEEDKASNKHRQ QERERQKRKGA\ERARRPAETG RRRRKRKRQRKA\AKQRQERQ GDGVLPCAPWTAHPRQPSQCW SARAPGGSAPRRRYLLTGQA NGSLAMWDLTTAIGRPRPGPCR WPDGARADGTAGTL
10312	40680	A	10373	99	1365	KEAEGRALARLLGPSEERFAAH EGMRPMAVFTRQGHIFTTGFT RMSQRELGLWDPNNFEPPVAL QEMDTSNGVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNLILQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRG\M GFMPKRGLDVSKCEIARFYKLH ERKCEPIIMTV\PRKVRAWDRD LGRRSDAVPRIRQGPEPALEAD EWLSGQGRNPNCSFSLR\DGYC CPPTHRLRVTKRNILDVRRPS GPRRKPSRPATPPCRSSTPLETL LEEIKPLRERVQAQEQRITALEN MLCELVDGPHYPRAPGRASGL PTDPFGGAVRRACVPVPLVPL ARAVRTLPLRYASSIAALVERM KAHMWAKGRATRDATAKRCS PMAQTTTQHLHVPCDREDES RWNYYICSS

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10313	40681	A	10374	1	361	MINPNPERSDDL VFWGLFRAG GMWSAIIAPVMILLVGILLPLGL FPGDALSYERVLAFAQSFGRV FLFLMIVLPLWCGLHRMHAM HDLKIHVPAGKWV\FYGLAAIL TVVTLIGVVTI
10314	40682	B	10375	70	256	
10315	40683	A	10376	224	414	LRWRS LPAFQSGNLSVPAALM NRANARGEAVCVLGRSSRFLA H*LAALGRSAAASGISSLKGG
10316	40684	A	10377	439	595	RAISCCPSHLVKRKTT LAPNTQ TASPRALADSLMQLARQVSRLE SGQ*AQRN
10317	40685	A	10378	1	391	FSSGTVPGDRPDREFIGDTLME RRNRRTGRTEKARIWETANTL AITMLMSTAMPAAAADGVTFS VPVTPHTFRHSYAMHMLYA\GI PLKGLQSLMGHKCIRSTGRLPQ RFLGLEWGLPGHPGGRLAMAE
10318	40686	A	10379	278	694	GHRSP LAIAGCPTIQNGAGPQC AAITRVRAARWCGYPPGSGIPTI PEDSFMLYPRALTTHQTGFSPA WGKPSVDRLLATLSGPGGEGQ YSCCPSHLVKKKT LAPNTQTA SPRALADSLMQLARQVSRLESG Q*AQRN
10319	40687	A	10380	2	371	SVQVFIRDKLMERRNRRTGRTE KARIWEVTDRTVRTCDCGGGL PAAAADGVTFFCSAPPNIRFRH SYA\MHMLYAR*YPLKGLLSPI G\HKCIRSTGRLPQRFLGLEWG LPGHPGGRLAMAEV
10320	40688	A	10381	276	508	
10321	40689	A	10382	464	763	
10322	40690	A	10383	1	715	MQHLSHGSRRHILISENFRGCQ DQAVSQTL LTRPPLVSKEASFF LLPFDLHVLGLPPAFNLSDQT LQFKSLTVTSVRVPLEVARPG LSMLGLLRFMSSLLAVGDMGQ GDQVEFQDTKGNSEGRASSQPP MTPLTPTRVRRCPGGPTWGAK AEGVGRAEAATADPGSEGDVV LSRTGLLLAGLLHYFRGRHLE EIMYNENTRRSLLMLFDKFRS VL\VTTHEDPVI AVFQALLP
10323	40691	B	10384	72	195	
10324	40692	A	10385	1	2331	

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10325	40693	A	10386	1	706	MTTSRSDTRSQDDPSAHLASPK LPQRLPKDLSEAQVERLLQAPLI DQPLELRDKAMLEVLYATGLR VSELVGLTMSDISLRQGVVRI GKGNKERLVLGEEA\VHWLET YLEHGRPWLLNGVPINVLFPSQ RAQQITRQALWRRINHYDEL\A GIDSEKLSPHVVRHAFATYFAG SGGCIADFCGGSCAGSSAAESC LWFAGTGLYLHHA\WVSGVWS RECSGAAWRDRRDVGGGE
10326	40694	A	10387	39	209	EPGTYYVNETDKSHSPCRPCVL LS**GIYLGSV*R*NGITYGALL AHIPNKFQVDY
10327	40695	A	10388	2	930	AWTHAGILLKHKYSFLVGCASI SDVIAQVVFVAILLH\SHLECRE PLLIP\LSLYMGALVRCTTLCL GYYKNIHDIIPDRSGPELWGDA TIRKMLSFWWPLALILATQRI RPIVNLFVSRHLGGSSAATEAV A\LTATYPVVHMPYGLTEIR AVYPAFDKNNPSNKLVSNTV TAAHIKKFTFVCMALSLTLCFV MFWDTQRV*GKSLIDIIGSGLW PLQELCVV\PLWIFSFFPVPVTV RAHLTGWLMTLAKKTFVLAPSS \VLRHIVLIASLV\PLPYLGVBHG ATLG\VGFL\AGFCGENSTMG
10328	40696	A	10389	1	1389	GDATIRKMLSFWWPLALILATQ RISRPVNLFVSRDLGGSSAATE AVAILTATYPVGHMPYGLTEI RAVYPAFDKNNPSNKLVSNT VTAHHIKKFTFVCMALSLTKD SVQKPDISLTGRLVQTLPTMR HQRGESKDVAPLASWLSEPSTS SEASQTSSKLTINSQGEGKAKQ KLECGTSLIVLRSCEKNQERIKA AEKRNRSWTTLCGLGAWRPLL FELPVIVQTPDQTNRFQFRYP KTQSGLCSSFHSDLLTLEAFV KVWFPGCLLILIEYASSKNRKS KMLQNLKLLSADMTLKLFCFVM FWTPNVSEKILIDI\GVDFAF LCVVPLRIFSFFPVPVTVRAH LTG\FLMTLNY\TFVLAPSSV LRIIVPHRPASWVLPY\LG VHGATLGVG\SLLAGFVGEST MVA\LATCYVYRKQKKKME NESATEGE\DSAMTDMPPTE EVTDIV\EMREEN

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10329	40697	A	10390	57	556	TGRCTCHDRHYWYSPVERIAY NVEAAR\VEQRTDLDKLVIE TNGTIDPEEAIRRAATILAEQLE AFVDLRDVRQPEVKEEKPEFDP ILLRPVDDLELTVRSANCLKAE AIHYIGDLVQRTEVELLKT PNL GKKSLTEIKDVLASRGLSLGMR LENWPPASIAD
10330	40698	A	10391	536	787	GRD*PDYAENAHVMPPVVED ASDMLLAITQAGRMLMFPVSD LPQLSKGKGKNIINIPSAEAARG EDGLAQLYVLPQSTLTIH
10331	40699	B	10392	868	900	
10332	40700	A	10393	1	278	MNPQEANYAYLRG/EVELVRLP DAEGRIAAE/GALPYPPGVLALE EGI/NLLPGFAPELQGVYIEE/HD GSGIIMLPTKLAEVGTI
10333	40701	A	10394	1	811	
10334	40702	A	10395	1	682	
10335	40703	A	10396	442	546	
10336	40704	C	10397	1	1776	
10337	40705	A	10398	2	1354	YFSPAAMKALDLLIKWTRSDQ NLGGCNTGLIRPISPIVLIYKLV GEQMIDVLGPEKRRRTTQEKI AIVQQSFEPGMTVSLVARQHG VAASQLFLWRKQYQEGSLTAV AAGEQVVPASELAAAMKQIKE LQRLLGKKT MENELLKEAVEY GRAKKWIAHAPLLPGDGDCTS FSDEPMTGWMAAAVVTLMIR MCFSVYTMLSESCQRMVIVGY GRR\PDRQNLMIQGSKP/SIFRQF C/PDFEHLQEPYE/LLWE/MYGN RGYLQLVSFMQKFIDQSIFANT QYDPSRFPSPGKVPIQQLLDLL TAYKFGVKTLYYQNTRDGAED AQDDLVPISIQDDGCESGACLR RASVASGSGCRMQRERLILATA RICRPDKTRQRRIRHRMRKMP YPALNSQQDTLMAYTTFSQTK NDQLKEPMFFGQPVNVARYDQ QKYDIFEKLIKQLFFLLASGRS
10338	40706	C	10399	1	1269	

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10339	40707	A	10400	1	1909	MGFHHVAQAGFELLISDDL PAL ASQ TARITAREARAPVEENKKA QLERDKQLSEQQKQAALAKE YKAQVKQLIEMNRITIANGDIG NFTDGNLIKIFVDKLTQAQLIN GRLAIARLLVDNNSEGEYAIIPA SVADKIAQRDASSIVLHSALSA EEQDEDDPYADFKVPDDL MWP TVYGRSVDRIRRSRRIRQSCAM PDATLCASYQAYGLRAKHPSFS SQGVPHCVDPVTLKIAS EAPSPI VGGTLPVPM TSQLPSVTSMQLL LDLDTIPNEPLHYDWEALRESI KTHGLRNSTLSALMPSETSSQIS NATNGIEPPRGYVSIKASKDGIL RQVVPDYEHLHDAYELLWEMP GNDGYLQLVGIMQKFIDQSISA NTNYDPSRFP SGKVPMQLLK DLLTAYKFGVKTLYYQNTRDG AEDAQDDLVP SIQDDG/CESGA CLIRRASVASGSGCRMQRERLI RPTARICRPDKTRQRRIRHRMR RVLPGRATRRDFPSLEAGYQW LPGRGLVIEPQAQVMYQGVQQ DDCTAASRARVSQSQDDIQTR LGLHSEWRTAVHV IPTLDLNDY HDPHSTEIEEDGSTISDDAVKQR GEIKVGV TGNISQ RVSLRGSVA WQKGSDDFAQTAGFLSMTVK
10340	40708	B	10401	1	1329	
10341	40709	A	10402	1419	1788	ALTSVLPRPSVHW*SPKPRNVD WHIGRGVAIIMQKSGIPDIDQA NCMIKLES DGT FIVHSGGADIG TGLDTVVTKLAAEVLHC PPQD VHVISGDT DHALFDKGAYASS GTCFSGNAARLAAEN
10342	40710	A	10403	73	477	SMFPRIPFGY/WHI/GSRVAIICQ K/SGIPDIDQSNLHDQLESHGTFI VHSG/GFDYGTGLDTV/VLTKL AAEV/LHC PPQDVHVISGDTDH/ ALFDKGAYASSGTCFSG/NAAR LAAVNPRALAYS YGGGGGARV CIWGGWGRR

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10343	40711	A	10404	1	756	MSIAYQEIPQNERLRRLSDSSITS VVEYLLAVVARSVYTSPDMAIF REHHSYMSLSMAACRKIRPCPQ ELPRSHIPMISAMWSQSAPDHV VQHEREQQSGFGDGTESHSTSD SNTEVRQNCSPPIGGVRNHRAL RGHQPAELEPENILKLLLMVAE RKAHKGWYYSGDLCRMDEAG YIKITGRKKDIIVRGGENISSREV EDILLQHPKIPNA\CMGAMSDD RLGERS CAYV\VLKAPHHSLSL EEVLCWRGC
10344	40712	A	10405	252	1245	GSRILPGASITRS\LEFIAGQAVK FNLLPVSLVKRNTTLAPTTH ASPRALADSLMQLARQVSRDL SGQRSVVFVRWSRRSIIVDSHA GLITTQRALGQSDMYRGSPLISE LRIIGPRHLRGVLRVVR LCPFSE PMLVECNPLLPSSLIIREPSLEPT LRFASRIALPDSTVLQIFSGVLP LSSGQAYIQFTYSETPRSTPREA NSAHILSVHQWKC GHI VMAAR VKVGYPQWTPISLSAGLSAVLY KPVERGGRC SHCSTALSPQGF LSSLLRFISEGVFKSFTDKQMLR DFVTTRPALIVLLWQPLNVEGT SSTSHCIIMPTCNDHRD
10345	40713	A	10406	269	432	
10346	40714	A	10407	332	933	RVSRGRKVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNRFTQFRLSE TKEITNPYAMRLYESLCQYRKP DGSGIVSLKIDWIIERYQLPQSY QRMPDFRRRFLQDFRLLGQ\TS VDRLL\QLSQGQAVKGNQLLPV SLVKRKTTL\APNTQTA\SPRAL ADSLMQLARQVSRLESGQ* AQ
10347	40715	A	10408	1	531	MRWKIDLARISKEIIDFYITQGV NRIGFIAGEDEPGKADIREVAFA EYGR LKQVVREEDIWRGGFSSS SGYELAK\QILARKDYPKPLFV ASDSIAIGVLRAIHERGLNIPQDI SLISVNDIPTARFSFPPLSTVRIH SEMMGSQGVNLVYEKAPDGR ALPLL VFVPSKLKLRGTTR
10348	40716	A	10409	1	1059	
10349	40717	A	10410	2187	2429	

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10350	40718	A	10411	1	835	MRPFGDYPDGGIDDLKISFSVP AAGVGPHFDQYDVFIQGTERR RWRVGEKLQMKQHCPHPDLL QVDPFEAIIDEELEPGDILYIPPG FPHEGYALENAMNYSVGFRAP NTREL\SGLPDYVLQRELGGNY YSDPDVPPRAHPADVLPQEMD KLREMLVELSTHPDPFKQWL EFISQSRHDLDIAPPDPPYQPDE FSDALNQGKVLGALGGLRVLR MGDAVYPNGEKMDSPRPALD ALASTIALTAKNFGDALEDPSF LAMLAALVNSGYWFFEG
10351	40719	A	10412	249	474	VYLLIVLAVLYTNNRQTESQIM SELPFTIASKRIKYLGIQL\TRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
10352	40720	A	10413	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
10353	40721	A	10414	342	528	
10354	40722	B	10415	32	587	
10355	40723	A	10416	1	2141	
10356	40724	A	10417	1	748	
10357	40725	A	10418	321	411	RNRDRYKQWKQDFFHDSYNR QRCGCWRLYRRHR*CRRYRR QQPHLCRLYES*KKSCFHCLYR SRF/RLRVKYPRDMYSLGTFL RSPVAIRIPLSRNQVKR
10358	40726	A	10419	1	2235	

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10359	40727	A	10420	1	1884	MGKDFMTKTPKAMATKAKID KWDVIKLKSFCTAKETTIRVNR INKIDKPLARLIKKKREKNQIDT IKNDKGDITTDPTIEIQTIREYY KHLTYTNKLENLQEMDKFLDTY TLPRLNQEEVETLNRPIGTSEIV AIMNSLPTKKSPGPDGFTAEFY QRYKEELMILIPK/PGQDTTKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINVIQHINRAKDKNH MTISIDA EKAFDKIQQPFMLKTL NKL GIDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEV LARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPTVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNKRQTESQ IMSELPFTIASKRIKYLGIQLPRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VTYRFNAIPIKLPMTFFTELEKT TLKFIWNQKRARIASILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNVRPKTI
10360	40728	A	10421	1	822	
10361	40729	A	10422	2738	2949	
10362	40730	A	10423	1	1134	
10363	40731	A	10424	1	2118	
10364	40732	A	10425	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSITGHVH HQ
10365	40733	A	10426	2	1624	
10366	40734	B	10427	1	3690	
10367	40735	A	10428	1	1056	
10368	40736	B	10429	1	2265	
10369	40737	A	10430	1	2037	
10370	40738	A	10431	1	2406	
10371	40739	B	10432	670	2568	
10372	40740	A	10433	3	4072	
10373	40741	A	10434	1	3171	
10374	40742	A	10435	1	1542	
10375	40743	A	10436	1	1008	
10376	40744	A	10437	1	2241	
10377	40745	B	10438	1	2682	

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10378	40746	A	10439	644	949	MRKPTLGRTYPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10379	40747	A	10440	1	1088	MARKDIQVLIIGTYEYYLVKGE KVLTLIAIKLKVLKWSGYPGLC LPEYHLGEVEGEDDMEVTAMD GRCLEVKGQSERLQVADQECV GDGSGRLCPFDRCECEQLQLV RPGLCNPRAIALTTKPQSPSPNI KRLVIGEQMIDVLGPEKRRRRT TQEKIAIVQQSFEPGMTVSLVA RQHGVAAASQEGSLTAVDAGEQ VVPASELAAAMKQIKELQRLL GKKTMEHELLKEAVEYGRAKK WIAHAPLLPGDGERTDDWMDG RRSRHTDDTDVL*SASWRQQV QRQEQPVLRRRQQ*DFLLGWL LHHVAGQRGRPSSPVQSSAEQL RSFPVWYAVCVSPALRHQSSVL
10380	40748	A	10441	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNMN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQQEELTILKIYAPNTGAP RFTKQVLSDLQRDL
10381	40749	A	10442	1	2445	
10382	40750	A	10443	1	1428	
10383	40751	A	10444	1	2478	

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10384	40752	A	10445	1	1746	METQKTLQKINESRSWFFKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDITYTL PRLNQEEAESLNKPITGPEIEAI NSLPTKKIPGPDGFTAIFYQRY KEELQHIKKLIHHDQVGFIPGM QGWFNHKLINVIQYINRTKDK NHMIISIDAEKASDKIQPFMLK TLNKLIGDGTYLKIRAIYDKPT ANIILNGQKLEAFPLKTGTRQG CLLSPLLFNIVLEVLAIRQEK EKKCIRLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGILT RDVKDLFKENYKPLLNEIKEDT NKWKNIPCSWIGRNIMKMAM LPKVIYRFDAIPIKLPMTFFTELE KTTLKFIWNQKRARIASILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRDVDQWNRIEPS ETIPHICNHLIFDKPDKNKQWG KDSL FNKWCWEIWLAI GRKRK LDPFLT PYTKINSRWIKDFNIRP KTIKTLEESLGMQDISMGKKFTS
10385	40753	A	10446	2	541	
10386	40754	B	10447	1	1533	
10387	40755	A	10448	753	1468	LVTSYSLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRS LICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10388	40756	A	10449	753	1468	LVTSYSLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRS LICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR

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10389	40757	A	10450	753	1468	LVTSYSLLP RHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10390	40758	A	10451	753	1468	LVTSYSLLP RHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10391	40759	B	10452	1	2259	
10392	40760	B	10453	1	684	
10393	40761	A	10454	1	1419	
10394	40762	B	10455	1	462	
10395	40763	B	10456	1	915	
10396	40764	B	10457	1	1659	
10397	40765	A	10458	1	1659	
10398	40766	A	10459	1	1224	MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYPGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVERINIVKM AILPKTAKNGPVLPLHSEEKIP FN\FH*LFR*TITATKA*QKRR* MCQNLMT\HQNQRSGRSQIYF* RRRKNISDRSAVYR*RQLYIRR QPYAERPS\HVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFCKESQKLQSSAKKR DAELANGALGIIELNNDYTLKK VMKPLITSNTVTDEIERANVFK MNGKWYLF\TDSRGSKMTIDGI LPISDPTIKQDFRLLGQTSVDRL LQLSQGQAVKGNQLLPVSLVK RKTTLAPNTQTASPRALADSLM QLARQVSRLESGQ

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10399	40767	A	10460	1	2241	MEDEMNMKQEEKFREKRIKR NEQTLQEIWVYVVRPNLHLIGV PESDGENGTKELENTLQDIIQENF PNLARQANVQIQEIQRMPQRY SRRATPRHIIVRFTK VEMKEKM LRAAREKDRSMRQKVNKDTQE LNSALHQADLIDYRTLHPKSTE YTFFSAPHHTYTKIDHILGSKAL LRKCKRTEIITNYLSHSAIKLE LRIKNTQNRSTTWKLNLLNLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDAFKA/EIQTTIK EYYKHL YANKLENLEEMDKFL DTYTLPRNLNQEVESELRNPITG AEIVAIINSLPTKKSPGPDGFTA EFYQRYKEELVPFLKLQFSIEK QGILPNSFYEAETILPKPRDRTT EKENFRPISLMNIDAKILNKILA KRIQQHIKKLIHHDQVGFIPGM QGWFNHKSINVIQHINRAKDK NHMIISIDAEKAFDKIQQRFML KTLNKLGDGTIFYKIIIRAIYDKP TANIILNGQKLEAIPLKAGTRQG CPLSPLLFNIVLEVLRVIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVTAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNI PCSWVGRINIMKMAIL PKVIYRFNAIPIKLPMFTFFTELE KTK\FIWNQKSAHITKGILSQKN
10400	40768	B	10461	1	1254	
10401	40769	A	10462	551	868	SIQHWSRISSRLVYRSKAVAAA LLPMNC SLWSTQAGFLPRFG*R *TRHLSTIEPEDYNLLFRRVSLK LSVWLPTWQSKSNGWSQKCL WMHLKFDSL NALLPPTGF
10402	40770	A	10463	1	2985	MEDEMNMKREGKFREKRIKR NEQSLQEIWVYVVRPNLHLIGV PESDVENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTK VEMKEKM LRAAREKGHCNSGKSHRSLWE QNKGIFTTCICDDAEDLQSPSTA GPWFGVLYTKGGPYQEDIFSE EVHTGPKLRKKIQEYQLTSKWS KSDVQVSVERRMAGGNPNQCH IGEVLLDGFTA E FYRRYKEELV PFLKLQFSIEKEG
10403	40771	B	10464	1	2277	

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10404	40772	A	10465	1	1064	
10405	40773	B	10466	1	1827	
10406	40774	A	10467	1186	1208	ATKMVRLSVAALVQRMKEFCA AKFPAVITCWWSVWAQSA*WR *CWRKTKI
10407	40775	B	10468	1	1992	
10408	40776	A	10469	1488	1920	RVRVTAVITERDCVSRSRWTAV IVRHCTGRSLPAASTVKQYRTS CWERWN/CRFGNDLPSSPVEWL TDN/EFMLPG**NTPVRPDVGLE PT*TRAACQESRCN/RLTPGIVL EIIGVWMQRWSLECRLAIPCIFG WLPRVVGEESSGA
10409	40777	A	10470	1	1659	
10410	40778	A	10471	1	987	
10411	40779	A	10472	1	1278	
10412	40780	B	10473	1	1556	
10413	40781	A	10474	1	1905	
10414	40782	A	10475	644	949	MRKPTLGRITYPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10415	40783	A	10476	1	1217	
10416	40784	A	10477	83	1134	
10417	40785	A	10478	2450	2607	

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10418	40786	A	10479	1	2604	MPLRAFNVPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGKEK QAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQVDDDHQGQLQGS AALTSLSIIGPLIVTAIYAASAS TWNNGNRACSSSVTRIVSILSRFI GIITPMNRNPPYTEASVTKQEK TALNMARFIRSQTLTLLEKLNE LDADEQADICESLHDHADELYR SCLARFGDDGNSYDHDYAKLA CLQVEGRGGGTFAHELLAVEY AGWISPAFRLKVNQTTFIDYRTG RLQPAIPQSLPEALRLAADLAE QKQRLEQKMLMDAPKVEFAER VATASGVLIGNYAKVLGLGQN YLFTWLRDNGILI/CNR*TQERP QTRIHISWVFH/LLKKP*SIQAM EAG/LSFTTRITGKGQQWLMKR LLDARNRDYKQWKQDFFHDS YNRQSAGHILSQCANLAATTSE YFIHKPHRLIAAETGYSQSTVV RAFREAVNKGILSVEIVIGDHRE RRANLYRFTPSFLAFAQAKNA LIESKLKISSAATKVAVLAKTL ALFNFLSTPPCQNDTPSPCQDD VAIKNKKSQVKKTKRSVSGGA GTTSLKKLTSWIAKAKAKADN LRLSKKRTQKHEFKQKVEAAA RKYAYLKNKRSPDIGGISNFDN
10419	40787	A	10480	1	2559	

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10420	40788	A	10481	1	1676	MLNGEKLAVKQEALLAAISEK DANIALLELSSSKKKTQEEVAA LKREKDRVLVQQLKQQVEGRGG GTFAHELLAVEYAGWISPAFRL KVNQTFIDYRTGRLQPAIPQSLP EALRLAADLAEQKQRLEQKML MDAPKVEFAERVATASGVIG NYAKVLGLGQNYLFTWLRDN GILIATGERRNVPKQEYISRGYF TLKETVIDTSNGSRISFTTRITGK GQQWLMKRLLDADVVRTTSIV MLAKVTFSLCITMSDFTFSGYE LACFVTHSGLSRSGHILSQCA NLAATTSEYFIHKPHRLIAAETG YSQSTVVRAFREAVNKGILSVE IVIGDHRERRANLYRFTPSFLAF AQQAKNALIESKLKISSAATKV KAVLAKTLALFNFLSTPPCQND TPSPCQDDVAIKNKKSQVKKTK RSVSGGAGTTSKKLTSWIAKA KAKADNLRLSKKRTQKHEFKQ KVEAAARKYAYLKNKRSPDIG GISNFDNLPHCMTVNEALNAVL AKNKDNEQWGAVAGAYIADIT DGEDRARHFGLMSACFGVGM VAGPVAGGLLGAISLHAPFLAA AVLNLNLLLGCFLMQESHKG ERRGELLKIVVLP GDHVGQEIT AEAIVLKAISDVRSNVKFD FE NHLIGGAIDLQGGGGKPRCVS KSLMLH/CWHSCRLEPRWR*QR VQRIRL*VHP*AFFAPAVAFALP
10421	40789	A	10482	1	3213	
10422	40790	A	10483	1089	1373	
10423	40791	A	10484	2720	2968	TTTLVRLPCRSPKRRIKALRSQ L RRKSILKPLLS*SR*STTK*RNTP CSQVSSLSRLSTRYRRRMKHSV NLVWTWVPYSSAP
10424	40792	A	10485	2	2264	
10425	40793	A	10486	1693	1980	
10426	40794	A	10487	1776	2026	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSSNRACSS SVTRIVSILSRFIGI
10427	40795	A	10488	1323	2064	
10428	40796	A	10489	53	243	WTVPLGAVPPVRMHEGLGCW CKLNGEVCMMSGMCLLCWWDC D*RHDLKANLDRLMNVCQDGR KR
10429	40797	A	10490	1	3117	
10430	40798	A	10491	1	1227	

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10431	40799	B	10492	1	2119	
10432	40800	A	10493	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSITGHVH HQ
10433	40801	A	10494	1	2822	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQKLELEKQEQTTHSKASRRQE ITKIRAELEIETQ
10434	40802	A	10495	2	163	
10435	40803	A	10496	4051	4355	MRKPTLGRITYPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10436	40804	B	10497	1692	1781	
10437	40805	B	10498	1	3477	
10438	40806	A	10499	179	439	KKELVNLTDD*SLENR/WIDVL GPEKRRRTTQEKIAIVQQSF/G TGDDGLPRCPATWCSSQPVISL A*AIPGRKSYCCRRRTGCSC
10439	40807	A	10500	1	7456	MYQANGKQKKAGVAILVSDKT DFKPTKIKRDKEGHYIMVKGSI QQEELTILNIYAPNTGAPTFIQQ VLSLDLQRLDSHTLIIGDFNTPL STSDRSTRQKVNKDTQELNSAL HQADLIDIYRTLHPKSTEYTFFS APHHTYSKIDHILGSKALLSKC KRTIITNYLSDHSAIKLELMIK NLTQNHSTIWKLNNLLLNDYW VHKEMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDT
10440	40808	A	10501	2476	2718	WPLRGRGGHRAAPGRHLHLQQ RLLLRLHLTACLLQDALDG/GP PRCWRGSCRWRCSAGPPRSWA RRPSATRSPSWPALECS

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10441	40809	A	10502	2	4517	HRLANWIKSQDPSVCYIPETHL TCRDTHRLKIKGWRKIYQANG KQKQAGVAIHISDKTDFKPTKI KRDKEGHYIMVKGSIQQEKLTI LNVYAPNTGAPRFIMQVLSDLQ RDLDSHTLIMGDFNTPLSTLDR LTRQKVNKDTQELNSALHQVD LIDIYRTLQPKSTEYTLFSAPHH TYSKIDHILGSKALLSKCKRTEII TNYLSDHSAIKLELRIKKLTQIR STAWKLNNLLLNDYWVHNEM KAEIKMFFKNNEN
10442	40810	B	10503	88	501	
10443	40811	A	10504	1	971	MWALFMIRNVKKQRPVNLDLQ TIRFPITAIASILHRVSGVITFVA VGILLWLEYRLSYLKGSSKLR DYGQLLTLEIPAALLPIHTGIVN QNINCTETLTASSDNLLRR AFC GDTHLHEVHLNTLFFNHFLCFA VIFDETRNKDICATSGQHAHFV DKKRKRELLSHMIGKGNWQQV LVFTRTKHGANHLAEQLNKDG IRSAAIHGNKSQGARTALADF KSGDIRVLVATDIAA/RGLDIEE LPHVVNYELPNVPEDYVHRIGR TGRAAATGEALSLVRSFFDWC DDCAAAGGMGNRNAQLADGI YHLRCIELYLGDGMADFL

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10444	40812	A	10505	1	2201	MSFDSLGLSPDILRAVAEQGYR EPTPIQQQAIPAVLEGRDLMAS AQTGTGKTAGFTLPLLQHLITR QPHAKGRRPVRALILPTRELA AQIGENVRDYSKYLNIRSLVVF GGVSINPQMMKLARGGVVDLV ATPGRLLDLEHQNAVKLDQVEI LVLDEADRMLDMGFIHDIRRVL TKLPAKRQNLLFSATFSDDIKA LAEKLLHNPLEIEVARNTASD QVTQHVHFVDKKRKRELLSHM IGKGWVQQVLVFTRTKHGAN HLAEQLNKDGIRRAAKHGKNC KCAYSKFQKPSPHIFTMLIGVC GVNQSITNVSNVSNMAKISGS GSHRLTKRVIKRDMRPIINHPV AYSRRRLQTELLFWHARWLN HTRRQFRIKEGDNGGQCFLFLW TGRFNFNLPSFGRIQHQQRNNA VGFSLGAFVITFIAGRACMPSLF VISTVCLTVMVYVFPAYDGV GRFYRASGSSLPVALQYTPNGA SRRYNQWRPSRMLSSLKKQKW RKGMSSESLHLTRNGSILEITLDR PKANAIDAKTSFEMGEVFLNFR DDPQLRVAIITGAGEKFFSAGW DLKAAAEGEAPDADFGPGGFA GLTEIFNLDPVIAAVNGYAFG GGFELALAADFIVCADNASFAL PEAKLGIVPDSGGVLRPKILPP AIVNEMVMTGRRMGAEALR WGIVNRVVSQAELMDNARELA
10445	40813	A	10506	1	168	MCEKNLAYAHKVKAALKGA SPGDFPREDYETNWEGRFTLA DLNIHGKRALGMDV
10446	40814	C	10507	1	3861	
10447	40815	A	10508	1	7407	
10448	40816	A	10509	290	661	QPLPEGRW/THLWHNDELDCS RWHK/QQHGFSLSPVYVRDNT LRALGNNDQRPDYVWHE/GTA FHLFNLKAARTGNTITAI DASE ANNWTLCLRNGVKVNGLQDG SQAESEQGLVVKPQGNALTITL
10449	40817	A	10510	3	510	KFHFMSPPFAHSMVQALE*LYA LGGLDKDCRLTEPLGMRIAEFP LNPMFAKMLLESNGFGCSQEIL SIAAMMQIQNIFVPPNHKSHAI RVHRKFAVEEGDHLTMLNIYE AFIKHNKDSKWCQEHLNFKG LVRAATVREQLKKLLVKFQVP RKSSEGDPDLVLR C IVS

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10450	40818	A	10511	1	1920	MIWGRAWWLTPVIPALWAAK VAGRVAEERGAVLGHEVGYCI RFDDCTDQLATRIKRLTESFSLI LSVIMLDEAHERTLYTDIAIGLL KKIQKKRGDLRLIVASATLDAD EEVETVVSMLEQARALARTG MKRHLRVLPAMYAGLPSFEQMK VFERVSRSVRKVIVATNVAETSI TISGIVYVIDCGFVKLRAYNPRT AIECLVVVPVSQASANQRAGR GGRSRSGKCYRLYTEEAFDKLP QSTVPEMQRSNLAPVILQLKAL GIDNVLRHFHMSPPPAQSMVQA LELLYALG\SLDKDCRLTEPLG MRIAEFPLNPMFAKMLLESGNF GCSQEILSIAAMMQIQNIFVPP NQKSHAIRVHRKFAVEEGDHL TMLNIYEAFIKVSTTTARSAAST HHPLEHNKDSKWCQEHLNYK GLVRAATVREQLKLLVKFQV PRKSSEGDPDLVLR CIVSGFFA NAARFHSTGAYRTIRDDHELHI HPASVLYAEKPPRWVIYNELL QTSKYMRDVT AIESA WVG WLHTFYSTRERTCSLESQKGPR SRDPLRREPTVYSCRDCWRPLL HAAAPGPRWGELAPAPVECLV ALKWAAACSLVLSSRCPQHLH PCWDPGGLCAWAGILLCCSGQ SGSWLTQHAH
10451	40819	A	10512	3	414	
10452	40820	B	10513	62	1408	

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10453	40821	A	10514	1	1388	MGTSIFLCVFLFCGALGLTMS PARGRLRCYICGFTKPCHPVPT CRDDEACGISIGTSGCRGIFQVP DGQRDSRSHFPADVTKITWAC GQSPPGFKPLFPSCSSPKTGQM DVLIDLDFGFELRNNGIWGEGA IRDTEEKSAADNLEPCSSPPPLEE VICCEGNAGFYEVGCVSTPLEA GYSVLGWNHPGFAGSTGVFPF QNEANAMDVVVQFAIHRFFH PQDIIIYA\LAIGGFTATWAAMS YPDVSAMILDASFDDLVLALK VMPDSWRGLVTRTVRQHNLN NAEQLCRYQGPVLLIRKTQDG NLTPVTP\KDICSNRANCLLVKA LQ\HRYPG\VMAEEGLLVARQW LEASSQLEEASIYSRWEVEED WCL\SVLR\SYQAEHGADFPW\ SVGEDMSA\DGR\RQL\ALFLAR KHLHNFEATHCTPLPAQNFPRC PWHPLGTQLGLIMEEWGERRH
10454	40822	A	10515	1	1519	MGFLPKLLLLASFFPAGQASWG VSSPQDVQGVKGSCLLIPCIFS PADVEVPDGITAIWYYDYSGQR RVFMGNPEHRVCNLLLKDLQP EDSGSYNFRFEISEVNRWSDVK GTLVTVTARSLSPGRHLETLH MAMSWQDHGRILRCQLSVAN HRAQSEIHLQVKYAPRGVKILL SPSGRNILPGELVTLTCQVNSSY PAVSSIKWLKDGVRQLTKTGV LHLPQAAWSDAGVYTCQAENG VGSLVSPISLHIFMAEVQVSPA GPILENQTVTLVCNTPNEAPSD LRYSWYKNHVLLLEDAHSHTLR LHLATRDTGFYFCEVQNVHG SERSGPVSVVVNHPKTPTMM VFVEPEGGLRGILDCRVDSEPL ASLTLHLGSRLVASSQPQGAPA EPHIHVLASPNALRVDIEALRPS DQGEYICASNVLGSASTSTYF GVRALHRL/LSVPAAALGPGTA/ VWASCSCCWAWGPATPGGTG YYLTGTYKSGGQTQMLSASLF
10455	40823	A	10516	3	615	
10456	40824	A	10517	373	631	SGGPD TDVVSIPYSCSRMHLCS *LCELLSFSWETLCRAVKENEL PKKE*RAPANQGPTGESSLSGL SDSPLQPGGDGVEERRALLF

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10457	40825	A	10518	1	5521	MANRFRSGEDSGGAIWQDCVE EGASELGFLESLLYTQGNDRKQ CSLTNQGRQVFALLMLRKGHL HVFVILFGPAGPAPPQPLPSVEQ VPLSLVPGPKGVAVSRTPPFFH QVHDCPFQDPKWEEQGSWDKI AALAIAELTLTSPVARDTSDPQ CAQQAFLHGQASWGVSSPQD VQGVKGSCLLIPCIFSFPADVEV PDGITAIWYYDYSQQRQVVSHS ADPKLVEARFRGRTEFMGNPE HRVCNLLLKDLQPEDS
10458	40826	A	10519	1	1149	
10459	40827	A	10520	111	370	SHRRSLGEAARHPSFRPAGTAF E*VSQKVVHPRDLEDRSACVPV GCSLTRESFFRLNNQPHGTRFLP IPSNPESSRRVPSAHLTV
10460	40828	A	10521	1	220	
10461	40829	A	10522	654	967	
10462	40830	A	10523	2	1415	
10463	40831	A	10524	2	293	CGKFTQHSRLIQH/QRMHTGE KPYEYWEFGKPRIYLQRKTFM KLDTTTGEGQSYQRNQMPCEP YGEKPKCKECKGKSFR/SSLT RHQRAHTGEKP
10464	40832	A	10525	51	378	GDFSPQKPPMAPHGCLTYLAFQ KVKEGKKEKKEKKRKRKERK KERKKERKKERKKERKRKEKK E\EGKEGRKEGRKEGRKEGRKE KKEISKKEIVAPTSNLPLKCSVL
10465	40833	A	10526	1	235	
10466	40834	A	10527	545	793	NKEMHWPCTGLCSHPWGFK DCSLLE*RLPGQQEQNSIERKK RKKEKKEKKEKRKKRKKGKKE ERKKERKYHFILLGMPST
10467	40835	A	10528	127	376	
10468	40836	A	10529	3	710	EPG/NPERLK/GFSYPEFEDLDA LFSTLGLNEESVDSFDDYLPRR GVDSFGDKYQD/RNSDQYHD GCQDRFRDGS HQDMGQCGR D*DDD*GSRDYDRGYDSATGS CRAFGSGYL RDDDY\WESSET EQQPPTGSEGK VPPVQPSEERP AKKDENV DGMN/APKVQSGN SGRGP GDGKNDCWRES DRKD GKKDQVCRSAPESKKPEENPAS KFSSASKCAAVSVDGEDEKEG

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10469	40837	A	10530	1	548	MQRSENDILGMDLRPLICIKDE KEEVGEKEEGEKEEECEEQEE EGGKEWEEPGNYHLGQSLSHD WQSSETEQQPPTGSEGKVPVPVQ PSEERPAKKDENKVDGMN/APK VQSGNSGRPGDGGNKDCWRE SDRKDGKKDQVCRSAPESKKP EENPASKFSSASKCAA VSV DGE DEKEGADYTK
10470	40838	C	10531	37	289	
10471	40839	A	10532	1	1062	
10472	40840	A	10533	1	1977	
10473	40841	A	10534	1	2050	LPLLHAGFNRRFMENSSIIACYN ELIQIEHGEVRSQFKLRACNSVF TALDHCHEAIEITSDDHVIQYV NPAFERMMGYHKGELLGKELA DLPKSDKNRADLLDTINTCIKK GKEWQGVYYARRKSGDSIQQH VKITPVIGQGGKIRHFVSLKKLC CTTDNNKQIHKIHRDSGDNSQT EPHSFRYKNRRKESIDVKSISR GSDAPSLQNNRRYPSMARIHSM IEAPITKVINIINAAQENSPVTV EALDRVLEILRTTELYSPQLGTK DEDPHTSDLVGGLMTDGLRRL SGNEYVFTKNVHQSHSL\AMP INHSM DVPPCISQLLDNEESWD FNIFELEAITHKRPLVYLGLKVF SRFGVCEFLNCSETTLRAWFQV IEANYHSSNAYHNSTHAADVL HATAFFLGKERVKGSLDQLDE VAALIAATVHDVDHPGRT\NSF L\CNAGSELAVLYNDT\AV\LES HHTALAFQ\LT VKDTK\CNIFKN ID/RGNHYRTL RQA IIDMVLATE MTKHFEHV NKFVNSINKPMAA EIEGSDCECNPAGKNFPENQILI KRMMIKCADVANPCRPLDLCIE WAGRIS EYFAQTDEEK RQGLP VVM PVFDRNTCSIPKSQISFIDY FITDMFDA WDAFAHLPALMQH LADNYKH WKTLDDLKCKSLRL PSDRLKPSHRGGLLTDKGHCES
10474	40842	A	10535	2	445	ERTFNCCYPGCHF KTVHGMKD LDRHLRIHTGDKPHKCEFCDKC FSRKDNLTMHMRCHTSVKPHK CHLCDYAAVDSSSLKKHLRIHS DERPYKCQLCPYASRNSSQLTV HLRSHTGPGPADLLEHSRLHQ ADHPEKCEPCSYSCSSAA
10475	40843	A	10536	1	957	

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10476	40844	A	10537	1	1438	MSRRKQAKPQHLNSEEPRPARR ECAEVAPQVAGEPASELDDDV PKANCLSTESTDTPKAPVITLPS EAREQMATLGERTFNCCYPGC HFKT VHGMKDLDRHLRIHTVP FCFSKVYWNGFQLGMISPPKGT MSGDIFDCYNWRRKGSTGICIW TGGGGTPICPGYHLGQIFVAILT KKPLTLTPYVFEGDKPHKCEFC DKCFSRKDNLTMHMRC\HTSV KPHKCHLCDYAAVDSSSLKKH LRIHSDEPYKCQ\VC PYASRNS SQLTVHLRSHTA\GDTPFQCWL CSAKFKISSDLKRHMIVHSGEK PFKCEFC DVRCTMKANLKSHIR IKHTFKCLHCAFQGRDRADLLE HSRA/LHQADHTEKCECSYSC SSAAALRVHSRVHCKDRPFKC DFCSFDTKRPSSLAKHVDKVHR DEAKTENRAPLGKEGLREGSSQ HVAKIVTQRAFRCETCGASFVR DDSLRCHKKQHSDQSEKQNL
10477	40845	A	10538	1	1427	MIAFDSMSHIQVMLMQEESTAP ATLEHILGHSQLCGSDGLAHAA VWVLAHLHYWFTGLSPGPM VLPLHPAIISSFHLWRVAFISKA GKPRAAGHLLKRFLRCQFQRA ASSLLFTTVEAMLGTESGTEKV MRGAGTWYHIIENWPSAECV WTEEYQQGRGQEDSAEDRKLF VGMLNKQQSEDDVRRLEAFG NIEECTILRGPDGNSKGCFAVK YSSHAEQA AINALHGSQTMP GASSSLVVKFADTDKERTMRR MQQMAGQMGMFNPM AIPFGA YGAYA QALMQQAALMASVA QGGYLNPM AFAAAQM QMA ALNMNGLAAAPMTPTSGGSTP PGITAPAVPSIPSPIGVNGFTGLP PQANGQPA AEEI\FANGIHPYPA QSPTAADPLQQA YAGVQQYAG PAAYPAA YGQISQAFPPPMIP QQQREGFVSFDNPASAQTAIQA MNGFQIGMKRLKVQLKRPKDA NRPY

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10478	40846	A	10539	1	547	AAAPMTPTSGGSTPPGITAPAV PSIPSPIGVNGFTGLPPQANGQP AAEAVFANGIHPYPAQSPTAAD PL\QQAYAGVQQYAGPAAYPA AYGQISQ\AFPQPPMIPQQQRE GPEG\CNLFYHLPQEFGDS\EL MQ\MFLPFGFRE/RFDNPASAQT AIQAMNGF\QIGMKRLKVQLKR PKDANRPY
10479	40847	A	10540	96	1080	WFKCYGCNSS/RDWQRSTYLLS WEVR/G/RPVPDSGCKAVVALC SQPAHPSNICKGVGGCLTK\HLL LMGAMGIRVACLEVWRDGEER GGEEATFFTS\LAERQVGT\AHRH LHQPALYIQIRKVPAALHMCVV QKPSLFQADSRAPLEQGLRQQA SLATARPIVSGANAGPAGLKVP QAAQLQLSPYLHRGVGDEACR YGRSQPTRKAFALCICAAPALP CPALDGSWMVCGLGQETR\TSL ANVQSFTQRPPQQPLTVWMLN RGRKPAQGTLTVICPIGP\GHLT STITESVCVPRRNKYHSRTLPA AQHCQWLVTAVPTALGLVIRA GSKKLC
10480	40848	A	10541	1	392	
10481	40849	A	10542	1	110	FFWSHS*VYYTCFLLQN*KHLK PGPSGSLSPSISGN
10482	40850	A	10543	1	978	MAAATRGCRPWGSLGLLGLV SAAAAAWDLASLRCTLGAFCE CDFRPDLPGLECDLAQHLAQ HLAKALVVKALKAFVRDPAPT KPLVLSLHGWTGTGKSYVSSLL AHYLFQGG\LRSPRVHHFSPVLH FPHPSHIERYKN\DLKSWVQGN LTACGRSLFL\DEMDK\MPPGL \MEVLRPFLGSSWVVG\TNYR KAIFIFISNTGGEQINQVALEAW RSRRDREEILLQELEPVISRAVL DKPAPLPSPNSGHHWKERLLD AVVPFLPLQRHHVRHCVLNEL AQLGPGAKGMRVVQAVLDSTT FFPEDEQLFSSNGCKTVASRIAF

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10483	40851	A	10544	1	560	ATSPHQSQSQSTVDV GQLHDPQP YPQHAIQVQHIQVSEPTASAPSS AQQSSSTQGGQ\ LQQQQQQQQ NSSVQHTYLPSA WNSFRGYSSE IQMMTLPPGQFVITDSGVATPV TTGQVKAVTSGHYVLSESQSEL EEKQTSALSGGVQVEPPAHS SDS LDPQTNKQQQTQYIITTTNG NGSSEVHITKP
10484	40852	A	10545	3	205	
10485	40853	A	10546	2	348	ADQARGKPT EWAVSATQFQLD FPIT*CYGLL*QRVSRRHIGALQ GKPVPLLHVLLYPITPREGGLG DRARLCLKQQQQQQQQQQQQ QLLLLLLLLLLLLLLLLLLQQCEGT EGRPFDP
10486	40854	A	10547	1	1146	MVTYKLV LIRCGESTWNLENH FSS\WQKRA/IRILWTVLDAIDQ MRLPVVRTWCLK EWHYGSLA GLNKAETSAKHGEA QSNISKGC RYADLTEDQLSSGESLKEIVPQI KEGKWVLTA AHGNSLRGIVKH LEGLSEEAIMELNLPTGIPIVYE LDKNL KPIKPMQFLGDEVTLCK AMEAVAAQSKAKKRRPAGML LSPGTPSLAIPSSAPACTCHTD HIWNSPVYSDLA ILRANPFCVHI SKANYLVNELHTAVNVAGLYI GWRCPHYLWDCFRIGDESRCF CGHLLREHRIISDISVPCKVSQC RCFMFCFIPSRPEEVGCCGCFE SNFLCAACDRRWE EHETFFDTQ KTRQRGGRPRGADYVPFAEMA VLREAILSNSDF
10487	40855	A	10548	2	516	GRLNERHYGGLTGLNIAETAA KHGEAQVKIWRRSYDVPPPPKE PDHPFYRNIRMDRRYADLTED QLPSCESLKD TIARALPFWNEEI GPQIKEGKRVLIATHGNSLRGIV KPWEGLSEEAIMELNLPTGIPIV YELDKNLKPIKPMQFLG\DEET VRKAMEAVAAQ GKAKK
10488	40856	B	10549	123	237	

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10489	40857	A	10550	1	952	PAAPQVAGRLGLGCPLHLHVF AVVSAMLPRLRCVPRVLGSSV AGLRAAAPASPFRQLLQPAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGCGCGSLHTDGDKAF VDFLSDEIKEERKIQKHKTLPK MSGGWELELNGTEAKLVKVA GEKIPVPF\NINNSIPP\TFYGEKD PSQSQKV\EDREPELTSLPKFVV EVIKNDDGRKA\LVLDCHYPED EVGQDEAEESDIFS\REVVSFQS\ TGESEWKDTNYTLNTDSLDDWA LYDHLMDFLADRGVDNTFADE LVELSTALEHQEYITFLEDLQEV LSRAHRADRC
10490	40858	A	10551	1	879	AAGCRKENSLDLRSQFPRGRDS EDFNVKEEANAEEIRYTHIL NRVLPPDIRILAWAPVEPSFSAR FSCLERTYRYFFPRADLDIVTM DYAAQKYVGTHDFRNLCKMD VANGVINFORILSAQVQLVGQ SPGEGRWQEPFQLCQFEVTGQ AFLYHQVRCMMAILFLIGQGM EKPEIIDE\LLNIEKNPQKPQYSM ACEFPLVL\YACKFENVKWIYD QELRSSNITHLQQLWANHAVK THMLYSMLQGLDTPVPVPCGMG PKMDGMTWGNVKPSVIKQTQ CLCRSEDAHI
10491	40859	A	10552	231	358	
10492	40860	A	10553	2	319	
10493	40861	A	10554	573	1660	MAAPTPARPVLTHLLVALFGM GSWAAVNGIWVLPVVVKELP EGWSLPSYVSVLVALGNLGLL VVTLWRR LAPGKDEQVPIRVV QVLGMVGTALLASLWHHVAP VAGQLHSVAFLALAFVLALAC CASNVTFPLPFLSHLPFRSFF LG\QGLSALLPCVLALVQGVG RLECAPPINGTPGPPLDFLERF PASTFFWALTALLVASAAAFQG LLLLLPPPPSVPTGELGSLQVG APGAEEVEESSPLQEPPSQA GTTPGPD PKAYQLLSARSACLL GLLAATNALTNGLVPAVQSFS LPYGRALPPGLWCWAVLPI WACFLGHGCCAGPWQGWGG LLSAGRVLWGLPDGRWQS

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10494	40862	A	10555	154	850	QFFRVITCLPFKGPDYRLYKSEP ELTTVAEVDESNGEEKSEPVSEI ETSVVKGSHFPVGVPPRAKSP TPESSTIASYVTLRKTCKMMDL RTERPRSAVEQLCLAESTRPRM TVEEQMERIRRH\QQACLREKK KGLKCFSVLSDQSPLQSPSNLR DNPFRTTQTRRRDDKELDTAIR ENDVKPDHETPATEIVQLKETE PQNVDFS/IRGLLDGPSVSILPGR SIKRAKNQNS
10495	40863	C	10556	39	436	
10496	40864	A	10557	2	959	
10497	40865	A	10558	34	1044	QGCAVAGPLHPARLPCCVHGC PVRMHASLSLCHVRCHFAVTFR LMYLDWLPTVIEPCGVGSNKV PVVQHPHHVHPLTPLITYSNEH FTPGNPPPHLPADVDPKT/GMC SCGTGRCAVARTCRIRSCVPCE ALSPCDARGAHSAGIPRPPHPPD ISPYYPPLSPGT\QQQPVPYPITTGG FRHPYPTALTVDNASMSRKHQD SKKEEEKKKPHIKKPLNAFMLY MKEMRAKVVAECTLKESAAIN QILGRRLLGYNARAFGLKRGWR LDKYRGFVWMAVWVSLPPA FSFQGGKKKKRKRDKQPGETND KPESLGLASSLMVVGWNTYRN QEKHIPTLELDHTVSV
10498	40866	A	10559	2	398	
10499	40867	A	10560	174	362	
10500	40868	A	10561	14	266	
10501	40869	B	10562	67	474	

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10502	40870	A	10563	1938	3291	ERRKRFGMLDATDGPGETDAA LRMEVDRSPGLPMSDLKTHNV HVEIEQRWHQVETTPLEEKQV PIAPVHLSSSEDGGDLSTHETS LLEKELEQSQKEASDLLEQNRL LQDQLRVALGREQSAREGYVL QATCERGFAAMEETHQKKIED LQRQHQRELEKLREEKDRLLAE ETAATISAIEAMKNAHREEMER ELEKSQRSQISSVNSDVEALRG QYLEELQSVHRELE\VLSEQYS AKCLENLAHLAQALEAERQALR QCQRENQELNAHNQELNNRLA AEITRLRLLTGDGGGEATGSP LAQGKDAH*LKGLM\RVKESEI QYLKQEISSLKDELQTALR\DK KYASDKYKDIYTELSIAKAKA\ DC\DISRLKEQLKAATEALGEKS PDSATVSGYDI\MKSKSNP\DFL KKDRSCVTRQLRNIRSKSLKEG LTVQERLKLFFESRDLKKD
10503	40871	B	10564	58	4405	
10504	40872	A	10565	3	156	NSSHHCHHHHHHHNHHHQHH QHNHC\HQHHHHYNHHYDYHH DDNYHHHHHHHH
10505	40873	A	10566	10	445	HRSTITRQCPSGLETRIALPPA VFPSGSRTLPPSTPGSSSPQPR/P PLTRGPGPPRTHALASGTRGPA RGEEKVADTPHHGEGGCPNSE KEPFLHPTAPPPRLPTSPESGP VPHTLQQAPPLRRHLGGTPAGA PASPQSSEWGG
10506	40874	A	10567	1	288	
10507	40875	A	10568	50	542	TLSPERLSPELRLLPYMITLGDA VHNFADGLAVGAFA\SWKT GLATSLAVFCHELPHLGGLRP LAAPGAVPCAKELLNLASALT AFAGLYVALAVGVSESEAW\ LAVATALFLYVAICDMLPAML KVRDPRPWLLFLLHNVGLLGG WTVPADAVPVRG
10508	40876	A	10569	1	690	
10509	40877	B	10570	34	465	
10510	40878	A	10571	1	624	
10511	40879	A	10572	3	933	

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10512	40880	A	10573	1	1481	RRFPAGAVAVIERGVRRGGSQR CRTMADQLYLENIDFV\TDQN KIVTYKWLSYTLGVHVNQAKQ MLYDYVERKRRKENSQAQLHVT YLVSGSLIQNGHSCHKVAVLRE DKLEAVKSKLAVTASIHVYSIQ\ KAMLKDSGPLFNTDYDILKSNL QNCSKFSAIQCA\AAVPRAPAES SSSSKKFEQSHLHMSSETQANN ELTTNGHGPPASKQVSQQPKGI MGMFASKAAAKTQETNKETKT EAKEVTNASAAGNKAPGKGN MMSNFFGKAAMNKFVNLD EQAVKEEKIVEQPTVSVTEPKL ATPAGLKKSSKKAEPVKVLQK EKK\RGKRVALSDDDETKETENM RKKRRT\IKLPESDNSEYEVFPD SSGAYEAESPSPPPSPPLEPVP KTEPEPPSVKSSSGENKRKRKR VLKSKTYLDGEGCIVTEKVYES ESCTDSEEELNMKTSSSVHRPPA MTVKKEPREERKGPKKGTAAL GKANRQVSITGFFQRK
10513	40881	A	10574	1	100	

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10514	40882	A	10575	2	2271	PELLTEGVKEPIMDSQERDSGD PLVDESLKRQGFQENYDARLSR IDIANTLREQVQDLFNKKYGEA LGIKYPVQVPYKRIKSNPGSVII EGLPPGIPFRKPCTFGSQNLERIL AVADKIKFTATRPFQGLIPKPD EDDANRLGEK\VILREQ\KELF\ NEKLR*GPWGLNRPVLVPYKL\ IRDSPDAVEVPGLPDDIPRNP TYDIHRLEKILKAREHVRMAIIS QLQLLQQQHHISEGRPF AEIC NDAKVPGESEARKPPFCPVGTR LFLKKREPEVSMNKDRYPQE APRNLQSLRTLDDILDDPRGGC VHLRQSQRWRGADTRELPRG MLEGLRQLLSAIGCPRDPTCAP AQP GDQPLQRLAFTLANEPQTV LEKPPPRFRRRGAARSPEQLYTP RRGGVLP AEPERTQSASADAGS LACRALEVDSGCPTGPPCPKGS RRLTITSGVDCGLLKQMKELEQ EKVVLLQGLEMMA GSRRLQRLQ PVQDRQCR LGQSRASADFGPA GSPHPLGRLLPKVQEVARCVGE LLAAAGASRALPTSSSGPLCPA LTFTSFPGWQQQTILMLKEQNR RLTQEVTEKSGRVMQLEQKSA LIMKQLFEAQALSQQDGEASGL HLHLARLGWAEPQGSSVTQPFE GGRPVSPNVSGWRPPAAQAVP EWAPSCPTCHPGFPGPPAGPR TEPLTRFWLLVLTWAGALLSLH
10515	40883	A	10576	346	3136	ALRTKRLWPGGHCRAEAPQWP P/ASPLAPATAAAHSRHLSLCR SDKGSMSEDCGPGTSGELGGLR PIKIEPEVLDIIQVTVPDALPTSE EMTDSMPGHLPS EDSGYGMET LTDKKWTWDGAKAIGISEPIKV LYSKFLMHPEELFVVGLPEGISL RRPNCFGIAKLWKILEASNSIQF VIKSGEEIRWDRELF CRACSM GGSL LQIAKSYTTGLESKSCDP AVESKASAGQDEM QPHARPKL LTEGVKEPIVD
10516	40884	A	10577	60	352	
10517	40885	B	10578	1	720	
10518	40886	B	10579	1	1478	
10519	40887	B	10580	1	1895	
10520	40888	A	10581	2	413	

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10521	40889	A	10582	2	969	WGSWAPQSRGCPYQPGAAQGR ALAPQHRGSCSPWWTGGGKE/Y LMRAHFGLPSVEAEDKEGKPI SVKFEIPYFTTSGIQVRLAPGSL YGRKRSSLGKSHPSLLQVDGQ YSQQQGAGHPRGTRKGSQTPG ARQRVEPGKCWPVVCVPHVPC PPTSTALRKHLRPQRAIYTSRLA PGALGGHCSVCLLPGLAGLAC GAFPGPAWVTRCCHSARSVLT HQGAPPGDITVPARLPEPEVE VSCRGRRPALLNAQQSPPSLPPP PPSAAAEEASC SHHVRQRRLRAG PEGQGFYLFHDRNKHSLKLAK PREPFCVVTDSRIQFGPPH
10522	40890	A	10583	50	1083	NPRAIFKSVRTCPVPPTQPCRN KARSCGVGAGTTSFTLSVWPH RYITQEGHKLETGAPRPGTVT NAVCRWSEGIKYRKNEVFLDVI ESVNLLVSAINGNVLRSEIVGSI KMRVFLSGMPELRLGLN\DKVL FDNTGRGK\SKSVELEDVKFHQ CVRLSRFENDRTISFIPPDG\EFE \LMSYRLNTHVK\PLIWIESVIEK HSHSRIEYMIKAKSQFKR\RTA NNVGDPHFPLPNDCLNPSFK\T TVGERLSWVPENSEIVWSIKSFP GGKEYLMRAHFGLPS\VEADK EGKPPDSVFKFEIPYFLTSGIQ VRYLKIIEKSGYQALPWVRYIT QNGDYQLRTQ
10523	40891	C	10584	175	454	
10524	40892	A	10585	1	193	LLPRPGSGLDLFLSPVLPS/HSAS WACPLPRSPMPSSCC*R*RKE MASGFSKGPTLGCCPTCPP
10525	40893	A	10586	2780	2965	SPSQGESIPT*WRPTGSPPTSSP GPA*SSLSPRSPSSASASPSMC VRPSMWAASLLKSL
10526	40894	A	10587	1	1502	
10527	40895	A	10588	1256	1990	RCAPMTTCAWASCCSPWPTPF GTGPPSTSVSTSWPWQPWGWG WL*VGAAPAGGRQHPSPPALPR RSSGRSKLSRPSLCQLVPGIL*T RLLSPPQKESLPWRGWSREFPL PQLNTLPATEADPGVSSLPSAQ RHLHSYKIKVLSRQESLAPAPA SGYPESTALPQNGRGPWAVGF GQIPFLCIHNVGRSLGAGPGSG KPLPCVFRSTFSSSHQYCRLGR KHNFHFTKGLRRCGCGPGDGR

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10528	40896	A	10589	375	678	RCCCCCTTRPARKCRTTGMGIRHS TWPAPTATRTHSGSRSPGSTA ASPRGLCPRPALTDPCGHLSG LPVASV*AGSCPHVPGDQTTRK SGTVFPTQCTRP
10529	40897	B	10590	1	2452	
10530	40898	B	10591	1	1140	
10531	40899	A	10592	1	1617	
10532	40900	A	10593	1	1448	RERSCLHLVCIRCSCDVVEMGS VLGLCSMASWIPCLCGSAPCLL CRCCPSGNNSTVTRLIYALFLL VGVCVACVMLIPGMEEQLNKIP GFCENEKGVVPCNILVGKYAV YRLCFGLAMFYLLLSLLMIKVK SSSDPRAAVHNGFWFFKFAAAI AIIIGAFFIPEGTFFTTVWFYVGM AGAFCFILIQLVLLIDFAHSWNE SWVEKMEEGNSRCWYAALLS ATALNYLLSLVAIVLFFVYYTH PASCSENKAFISVNMLLCVGAS VMSILPKIQESQPRSGLLQSSVIT VYTMYLTRS\CMTNEPETNCNP SLLSIIGYNTTSTVPKEGQS\VQ WWHAQGIIGLILFLLCVFYSSIR TSNNGQVNKLTL\SGESTLIGR WVGAR\SDGITGRDGGTDVSPE AVRINGK/RDGC SLYSYSFFHF MLC\LASLYIM\MTLTSWYRYE P\SAWMESQWTA VL\WVKISS WIGIVLYVWTLVAPLVLTNRDF
10533	40901	A	10594	3	343	GVLLCRL*QGQNYW/NFLQTK VTGNMRDKRTTPMPEFLHASW PNTELRYWKENCPE SQKGP*PM MALS*GCPLWPAPNVTSSSKG WSPGQLWMYRFGRLRISSETG WSLWLT

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10534	40902	A	10595	1	2500	MEDAWGIRKETGRVKEEAKEV TGWGNNWRNVEKSSMSRKVK AARPGFKKLPMSTDIPPKCTIKD LLPKEKSSTEAVFHTVVLERHE SPDIEDFSFKEPQKNVHDFECQ WRDDTGNYPKGVLMQAQKEGKR DQRDRRDIENTKLMNNQLGVSF HSHLPELQLFQGEKMYECNQ VEKSTNNGSSVSPLQQIPSSVQT HRSKKYHELNHFSLLTQRRKA NSCGKPYKCNECGKAFTQNSN LTSHRRIHSGEKPYKCSECGKT FTVRSNLTIHQVIHTGEKPYKC HECGKVFRHNSYLATHRRIHTG EKPYKCNECGKAFRGHSNLT HQLIHTGEKPFKCNECGKLFTQ NSHLISHWRIHTGEKPYKCNEC GKAFSVRSSLAIHQTIHTGEKPY KCNECGKVFRYNSYLGRHRRV HTGEKPYKCNECGKAFSMHSN LATHQVIHTGTPFKCNECSQ VFTQNSQLANHRRIHTGEKPYK CNECGKAFSVRSSLTTHQAIHS GEKPYKCIIEGKSFTQKSHLRS HRGIHSGEKPYKCNECGKVFA QTSQARHWRVHTGEKPYKCN DCGRAFSRSSLTFHQAIHTGE KPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFSM HSNLTTHKVIHTGEKPYKCNQC GKVFIQNSHLANHQRTHTEK PYRCNECGKAFSVRSSLTTHQA
10535	40903	A	10596	330	432	
10536	40904	A	10597	1	147	
10537	40905	A	10598	1	380	RTRGRGQRGKMELVQVLKRGL QQITGHGGLRGYLRVFFRTNDA KVGTLVGEDKYGNKYEDNK Q/FFWHRWLHSMDDPPTTKPL TARKFIWTNHKFNVTGTPEQY VPYSTTRKKIQEWIPPSTPYK
10538	40906	A	10599	9	536	VLKRGLQQITGHGG/LFRGYLR VFFRTNDAKVGTLVGEDKYGN KYEDNKQFFGDERLQASGLA LTLCEQTEEGSCLWSQRSLGK SQSMNFKNSKTRSFQRTVSAGK TKYYHPVVAGRQQQARATCD HVDPRQTQEHGPGAAWPYWPRL GLKHALLTFTVALQYRAQLFR LPNLPL
10539	40907	A	10600	239	263	
10540	40908	A	10601	1	600	

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10541	40909	A	10602	1	1178	
10542	40910	A	10603	1	1038	MHLEVNSSPEPLDENLDNTVTS ALSGHEQRIQTSPLVLLTTKTEI LARFSQLQFPPEEQSSFAYPANC VKSKGMNTKLPLRPLKVCREL TIDSDRDILYRTLFGDMSGMGK VQFEFGEEVHVIKSTGFGPFSS YATLE ^o FVAVQLWGGGQHYQ GQQI ^o PMGMMGQVNOGNHMM GQRQIPPYRPPQQGPPQQYSGQ EDYYGDQYSHGGQGPPEGMN QQYYPDGHNDYGYQQPSDPEQ GYDRPYEDSSQHYYEGGNSQY GQQHDAYQGPPPPQGYPPQQQ QYPGQQGYP\KQQQGYGPSQG GPGPQYPNYPQQGQGGYGGYI PTQPQPPQPPQRPYGYDQGQY
10543	40911	A	10604	130	213	LKVST*AMPLPR*TPSRRCQP*R TGTSP
10544	40912	A	10605	124	208	LKVST*AMPLPR*TPSRRCQP*R TGTSP
10545	40913	B	10606	140	589	
10546	40914	A	10607	1	302	
10547	40915	A	10608	2	98	
10548	40916	A	10609	2	190	
10549	40917	B	10610	1	856	
10550	40918	A	10611	123	1287	AFSLGK\MSEKKLFGPNGERMP FSKVKALCAGLQATVAAPKNA EENKAIQDVAKDTAFLGITDEA TEGQFMYLTTGGRLTYSNWKKD EPNDHGSGEDCVILLNGLWN GISCTSSFIAIFQWAHYQYRQAE NYPKGELHTLRVKLCGPSWPT NAIHFRSRLLMPLGPTVLLMTM AVFQLSQAVAMCSWCCGLVLP PAGCLQDKASKPRETQAQPGL CVRGNFRIPSRQDFAAALARAL SGLDLWASLWVPFADFLGSSLS VPWFSYLENDEEDLTRLSRLN GERTFLESPGKKRIGAGTPPMS QEAVMLAVMERDPGQCRGEE GPTECRAMWPGWGGRHSLPGH PAMLC SFLGSDLEIRGSNGGWE PPFIPGLQPELARGIQGSGRGAE
10551	40919	A	10612	292	445	LSICLQSAVCTPGMD/PAAPCSL GILDWGTLPSTAEPGREGPADA WVDPGVR
10552	40920	A	10613	363	575	HLLPTQGALCPAEGWPAPWQG YTPTCDCAEDTTQLERAGQLPP VF*SCHRGGVSSQ*GSPGVPQL LHQPE

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10553	40921	A	10614	3	638	SSKLSGLTTNVVDIILAHHFGQE ELQANLDLIQTYRMHIAQDINQ DNLQLFLNSYNGRRDLEIERPIL GQNDNKSKTLKG\STLLVVGDN SPAVEAVVECNSRLNPINTTL\AL KMADCGGLPPG*FSPGKLTEAF KYFLQGMGYIPLVLCYST\SGS MTSVARSR\THSTSSSLGSGESP FSRSVTSNQSDGT\QES\CESPDV LDRQQTMEVSC
10554	40922	A	10615	3	1152	KSCFNAFFNFEDMQEITQH\FAV CHVDAPGQQEGAP/SPFPTGYQ YPTMDELAEMLPVLTHLSLKS IIGIGVGAGAYIL\SRFALNHPEL VERPLCSLMVDPC/ALKGWIDW AASKLSG\LTNNVVEIILAHHFG QEELQANLDLIQTYRMHIAQDI NQDNLQLFLNSYNGRRDLEIER PILGQNDNKSKTLKCSTLLVVG DNPAVEAVMADCGGLPQVVQ PGKLTEAFKYFLQGMGYIPVCA AQSPHRVST\SASMTLRLARSRT HSTSSSLGSGESPFSRSVTSNQS DGTQESCESPDVLDHRHQTMEIS LDDVLLSALLRNNGKSAQQKKI SAKPKLEFLCPRPGTCDHGSRE KQGHSRGPGQFPGRWPGRAVA ETRGAIDHRL
10555	40923	A	10616	169	270	GICPFLQLSFYHLLD*DTRYLQI LRLQLKPHSFH

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10556	40924	A	10617	1	1551	MRKDSCASSMHQQVSRSKKRA GQKTPPEDQEGGQRALRSSHIR LGQFLLEDCKTPSPSSLGADAI AKQRKTSVSAASVSATIPIRR VQGPTVVGSWARGVSAASGP RGTGPKGKARSEKGCSLSHGPO TNKPLVVQKGQKMEQANHPV GLVISVVYKDILKKIVQRETSH LIHVRYAEAITGRRTAPEDKGS LGRDMLAKAGAIHYMNMGKNL PIWCHLLEEGIYLEVWALEGQF GRAKNACPVQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPILGVQKP NGQWSLVQDLRLISEAVIPLY VVPNPYTLLSQIPEEAEWFPVL DLKDAFFCIPLHYDSHDSQFLF AFEDPTDHTSQLIWTVLPQGFR DSPHLFGQALAQDLGHFSSPGT LVLQYVDDLLLATSSEASCQQA TLDLLNFLANQGYKASRSKAQ LCLQQVKYLGLILARGTRTLGK ERIQPILAYPHPKTLKQLWGFL QIT/GFCQLWIPR*SKI
10557	40925	A	10618	1	1022	MKPSVWALIQLNLSPYEKGILG LTKRHQGRLCDGRQGIQPLPP SQAHTGIPLLHPYSIQVDCAIDR GKLCFCCCIGECNYSQQGPGT VAGSWARGISAAVSVSATILISR VQGPLHVLGQEVFLLLRQTNL AGSERTENGAGQSPGGACYQC GLQGHFTKDCPMRNKLPPRCP LYQGNHWKDGEPHEDCQQIIV QTSAAEDLLEVPLANPDNLNLY TDGSSFVENGEVAKAVIAQFPT TVGVSCLDGRLRVLEVLARAIR /LGEGNKGYSIRKRGSIQVPVCR *HDCISRKPHHLSPKSP*ADKQL QQSLRIQNQCAKITSILIHQ*QT
10558	40926	A	10619	1	2091	
10559	40927	B	10620	1	2269	
10560	40928	A	10621	1	1776	

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10561	40929	A	10622	112	1465	LLKGARCLIQRPFA/LQQETHR AHTLLEWEPQAETAFTTLKQA LLQAAALTLPTQRNFSLYVTDR AEIALGVLIQTCGTTQPVAAYLT IEKGKERGEQQHKQLAEAAER KERKRQEVREKEKEKETERQSK KEREETKMESERKRETEKEVS TLAALEEPFSPQPSLGLAEAGA GSLFSWGGVEGEVRGGGRAAH SAHRLVQVPGGQVRVQVFENP LLKAIKSDLPRSSLWSGRKTSV SAAALKEIRKEISKGTQIPLGYR LCPLQAVGGGEFGPTKIHPVFS LSDLKQIKADLGKFSDDPDRI DVLQGLGKTFDLTWRDVMLLL DQTLAFNEKNAAALAAASEFGGI WYLSQVNDRMTAEERDQFPTG QQAIPSMDPHWDLDSDHGDWS HKHLLTCVLEGLRGIRKKPMN YSMMSTIIQGKEENPSAFLQQL WKSRLKYTPPSSKSL
10562	40930	C	10623	52	690	
10563	40931	C	10624	199	285	
10564	40932	A	10625	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLLATSSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
10565	40933	A	10626	280	571	DIYVPIRII*KLPQAYAD/PAVPP CTSGRIWL*IHAGAWSSFVLVS Y*LLPQFQILLVYSEIQILPGLV LGECMCQGICPFLDLVYLRR GVCSIL
10566	40934	A	10627	60	148	WGRGEPLCLAQGL*THQSAPC QNRPLGSL
10567	40935	B	10628	1	397	
10568	40936	A	10629	55	219	LGNKHLGSLIDPRGSWVTGEYI FLRPPIAA*GRQ*DFLPFELWW TSLNNSWAFS
10569	40937	A	10630	3	494	
10570	40938	A	10631	2	689	
10571	40939	A	10632	157	277	DV*SNNSMSTLQVRCRTSMYLS GSSENFPRSTWICDAVAETPLA QEPATVPGP
10572	40940	A	10633	230	543	PSDRQTLVVQRGQKIEQANHL VGLVTSVVWKDTLKKIVHGMA FSMLISC/PRQLSSRSITIQILGR AVTRYFSHLLSCNWETLLQIDQ GHQATDGLTNGTPNELN
10573	40941	B	10634	1	669	

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10574	40942	A	10635	119	409	GDICHHLGLTPVGSHSLSCSR* QVA*VGAVTAATIGTGILLQQL AFLVCNWLLLSGSSENFPRSALI CFKSEREKGTCTQVGPNSPPPTA CKGHN
10575	40943	A	10636	3	482	LSSYSGGDLEKLYV*LRDCKYT NQHSVSSSRFVNIPISTLCLTQG L*MHPMDTLYLATLGGDLENL CVHTLYLANLVGMWRTFVSSS GIVNAPISTLSKQTT*LSVKWTN QQDVGGARQENKSRLPEPAVT TPLGSPPTPWKLCSFALCNKSC YCPK KKK
10576	40944	A	10637	1	2331	
10577	40945	A	10638	879	1353	SNNRTEGARGKRQLMSSP/STE PRVRLTIEGQETDFLLDTGAAFS VLISCLGRLSSRSVTIR*ILGQPV TRYFS/QPLSCNWETLLFSHAFL IMPESSTPLLGRDILAKAGAIYI NMGNKLPICCPALLVEGINPEV WALEGQFGRKNARPLQIRLK
10578	40946	A	10639	345	1996	
10579	40947	B	10640	97	1110	
10580	40948	A	10641	728	5171	
10581	40949	C	10642	1	2049	

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10582	40950	A	10643	1	2019	MNAHPEFRMAMKDGELVIWD SVHPCYTVFHEQTETFFSSLWSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGFIEENMFFVSANPWV SFTSFDLNVANMDNFFAPVFTM GKYTTQGDVKVLMPLAIQVHHA VCDGFHVGRMLNELQQYCDE WQGGAAQYPLRPEAHKGIQDIV KYLKAQGLGRKCSSPCNTPILG VQKLNGQWRLVQDLRLIN/EGF F*SSKLQAMQAMFAENSMSSV YSPTQEA EYWLPHGILQPADCF FEAASTSRSMWPREDWLSTT/S LTTWNMDFA DFGTTIKQDFRLL GQTSVDRLQLSQGQAVKGNQ LLPVSLVKRKTTLAPNTQTASP RALADSLMQLARQVSRLES LDHGSHSYRRSDNSLDPRSHSC CRSDIGLGRSHLYCRSDYQRE TTIPSMVPKGNQAPCMKSNNAL LIVILGTVTLDAVGIGLVMPVLP GLLRDIVHSDSIASHYGVLAL YALMQFLCAPVLGALSDFRGR RPVLLASLLGATIDYEIMATTPS WEDEEPIEHDSQQIIVQTYATR DDLLEVPLANPDNLNLYADGSSF VENGIRRAGYAIIVSDVTVLENS LAAVTLQNRQGLDLLTAKEGG LCTFSGKECCFYTNQSGISSPLE DTTTAGPFLHPIQQEVARAIIGQ FPTAFGVSCLEGRRLRGEASWTS
10583	40951	A	10644	803	1171	
10584	40952	A	10645	1	2148	
10585	40953	A	10646	1094	3886	SNDRTEDDCGKHPPMSSPPVTEP WVCLIEGQEIDFLLDGTTFVS LIPCLGRLLSSRSVTIQGILGQPV RYFSLHLLSCNWETLLFSHAFLV MPESPTPLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLSSQVPPEAEW FTVLDLKD
10586	40954	A	10647	762	1298	

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10587	40955	A	10648	893	2165	GPCRGTPKKGKARSEKGRSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIIMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRASNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPI LGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEA E WFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSqliwTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGTRTL GKERIQPILAYPHPKTLKQLWG FLEITGFC* LWIPGYSKIARPLYT
10588	40956	A	10649	2	403	
10589	40957	B	10650	51	1038	
10590	40958	A	10651	581	1128	SPCRAQRHSCMWGLWQQSPCS PGSWQDSSPAQSGPPR*PFSVP SSPWCLPSTWPLSPSPLPASWR RKTSAPSLSLATAGPP*AGVC E/AKTPKKKYSDDDDEEESEEN SRDSEDFSDDFSDDFVETRRR RSRRNQKRQINYKEDSESDGSQ KSLRRGKEIRRVHKRRLSSSESE GYFFIKS
10591	40959	B	10652	1	4296	
10592	40960	A	10653	2	447	KEKKRNKKKKKTIGSPKRIQSPL NNKLLNSPAKTLPG/AC/GSPQK LIDGFLKHEGPPAEKPLEELSAS TSGVPGLSSLQSDPAGCVRPPV VKYCTDLIEEKDLEKLDLVIKY MKRLMQQSVEVWNMAFD FIL DNVQVVLQQTYGSTLKV T
10593	40961	C	10654	286	336	
10594	40962	A	10655	421	638	

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10595	40963	A	10657	1	888	MMNEKNLEKGLGVDSVDKDA MNAAIQQAIIKAQPSMSPKKAPP APAKEARNVVAVGTGGRGTHD RDPSEKPPRLQWFEQQA KLA KQQEEDSEEEEEEDLDGDVLEIG KSKIKVLAESVSDWEDIDSDEE LECEDTEAMDDVVEQDAEEEE AEEGPPLGAIPITDCLFCSHHSSS LMKNVAHMTKDHSHFFIPDIEYL SDIKGLIKYLGTHSSSSNVCKGL WDLEKRPSIDLK/CRT*YSTKRH /CTR TLSASSHFILCQWFSVLS/P VHASTDQEIQEMHDDQSNPQN AVVREHCVGWGWGV
10596	40964	A	10658	1	1545	MATYTCITCRVAFRDADMQRA HYKTDWHRYNLRRKVASMAP VTAEGFQERVRA\HGPSRRRRRA RARP/LYCTVCSKKFASFNAYE NHLKSRRHVELEKKA VQAVNR KVEMMNEKNLEKGLGVDSVD KDAMNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVAVGTGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQQEEDSEEEEEEDLDGD VLEIGKSKIKVLAESVSDWEDI DSDEELECEDTEAMDDVVEQD AEEEEAEEGPPLGAIPITDCLFC SHHSSSLMKNVAHMTKDHSHFFI PDIEYLS DIKGLIKYLGEKVGVG KICLWCNEKGKSFYSTEAVQA HMNDKSHCKLFTDGDAALEFA DFYDFSWRLAVGGHDWVERLT ASHYFYGYYPGARVGHSLMR YYKQRFGLSRAVAVAKNRKAV GRVLQQYRALGWTGSTGAAL MRERDMQYVQRMKSKWMLK TGMKNNATKQMHFRVQGSQK EIQIFHSSEIDGIATAVEDDFASP TPTKDAKN
10597	40965	A	10659	3	943	

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10598	40966	A	10660	1	2427	MATYTCITCRVAFRDADMQRA HYKTDWHRYNLRKVASMAP VTAEGFQERVRA\HGPSRRRA RARP/LYCTVCSKKFASFNA YE NHLKSRRHVELEKKAVQAVNR KVEMMNEKNLEKGLGVDSVD KDAMNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVAVGTGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQQEEDSEEEEDLDGD DWEDIDSDELECEDTEAMDD VVEQDAEEEEAEEGPPLGAIPIT DCLFCSHHSSSLMKNVAHMTK DHSFFIPDIEYLS DIKGLIKYLGE KVGVGKICLWCNEKGKSFYST EAVQA HMNDKSHCKLFTDGD AALEFADFYDFSWRLAVGGHD WVEVEGRIRGCGSREDNECLL VCNFSVIGVAIQITRKGRTPIRA EELPSEKNLEYDDETMELILPSG ARVGHRSMLMRYKQRFGLSRA VAVAKNRKAVGRVLQQYRAL GWTGSTGAALMRERDMQYVQ RMKSKWMLKTGMKNNATKQ MHFRVQMDCRGIAVLVFKAPS FYLIMAPKHKSGDAGDSNMPK GSRKVLPLSEKVKVLKEKKLY AEVAKIHGVKLQTFGVSVTAH KGSVDPKSEQQDQLLQRVKEQ SFHSVEADPAAEGAGSGLSQLR KGLPQCSSLRLNGSSSATKVGAQ AEEAPRASEGCEGCQHAVTSQ
10599	40967	A	10661	3	658	GTKGWAFPI TDCLFCSHHSSSL MKNVAHMTKDHSFFIPDIEYLS DIKGLIKYLGEKVGVGKICLWC NEKGKSFYSTEAVQA HMNDKS HCKLL\QDGDAALEFADFYDFR SSYPDHKEGEDPNKAEELPSEK NLEYDDETMELILPSGARVGH\ RSLMRYKQAIWLVKNLWQLP KIRKAVGRVLQQYRSPGIGLS TGAALMRERDMQYVQRMKSK MGC
10600	40968	A	10662	1	221	MNPLANSTLTDVHPHFIFKQMA ELDRDMDEAGNHHSQQTNTRT ENQTPHVLTHKWELNNENTRT QGREHHTSEEFIAIQPEYYQKE KSNSDINLEGTSYWTENHCSGI YKVINCLESEIHSEEN*CQN*IFL SDNIQVELR*IPLMCDVPCPVSV CSHCSTPTYE

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10601	40969	A	10663	1	1815	MHEAGNHHCQQSNTRKENQTP DVLTHKWEFGDQLRLEGLLCD VTLMPGDTDDAFPVHRVMMMA SASDYFKAMFTGGMKEQDLM CIKLHGVSKVGLRKIIDFIYTAK LSLNDNLQDTLEAASFLQILP VLDCKVFLISGVTLDNCVEVG RIANTYNLTEVDKYVNSFVLKN FPALLSTGEFLKLPFERLAFVLS SNSLKHCTELELFKATCRWLRL EEPRMDFAAKLMKNIRFPLMTP QELINYVQTVDFMRTDNTCVN LLEASNYQMMPYMQPVMQS DRTAIRSDTTHLVTLGGVLRQQ LVVSKELRMYDEKAHEWKS PMDAPRYQHGIAGVIGNFLYVV GGQSNYDTKGKTAVDTVFRFD PRYNKWMQVASLNEKRTFFHL SALKGYLYAVGGRNAAGELPT VECYNPRTNEWTYVAKMSEPH YGHAGTVYGGVMISSGITHD TFQKELMCFDPDTDKWIKAP MTTVRGLHCMCTVGERLYVIG GNHFRGTSDYDDVLSCEYYSP LDQWTPIAAMLRRQSDVGVAV FENKIYVVGYSWNNRCMVEI VQKYDPDKDEWHKVFDLPESL GGIRACTLTVFPPEETTPSPSRES
10602	40970	A	10664	1	1226	MNEIEFRLERTPVDESDDDEIQH DEIPTGKCIPIFDKRLKHFRVT EGSPVTFTCKIVGIPVKVYWF KDGKQISKRNEHCKMRREGDG TCSLHIESTTSDDDGNITIMAA NPQGRISCSGHLMVQSLPIRSRL TSAGQSHRGRSRVQERDKEPLQ ERFFRPHFLQAPGDMVAHEGR LCRLDCKVSGLPPDMTWLLN GQPVLDPASHKMLVRETGVHS LLIDPLTQRDAGTYKCIATNKT GQNSFSLELSVVAKEVKKAPVI LEKLQNCGVPEGHPVRLECRVI GMPVPVFYWKDNETIPCTRER ISMHQDTTGYACLLIQPAKKSD AGWYTLSAKNEAGIVSCTARL DIYAQWHHQIPPPMSVRPSGR YGSLTSKGLDIFSAFSSMESTM VYSCSSRSVVESEDEL
10603	40971	C	10665	166	229	
10604	40972	B	10666	251	371	

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10605	40973	A	10667	79	1391	PWEGSAPATSPLGEDSAWGSA DGSESWSCRELLQPGDVLGESC GLTPPALPAHCIQEGCLPPLTQE LRCCQPPRMGRWALDVAFLW KAELTLGLELLYY\CFFIGINFY NKWLTKSF/HIFPLFMTMLHLA VIFLFSALSRLVQCSSHRRARV VLSWADYLRRVAPTAALREVA SLFRKPSAEEMLCPPARQRGEA RELSQNPIIRAGEGRLQGHRQV ATVICAPAPFSVMGLSPELQQCI VGNFASRYTMTKSSAVLFILIFS LIFKLEELRAALVLVLLIAGGL FMFTYKSTQFNVEGFA\WCWG PRSSVAFAGPSPRCSCRRLNSAS RIPSTPCSTCSHSCS/WGLFPLFA VFEG\TGLLLRVLGSLFLGGILA FGLGFSEFL/VSSRTSSLTSLIA GIFKEVCTLLAAHLLGDQISLL NWLGFA\SASREYPSTLPS
10606	40974	A	10668	1	1129	MGRWALDVAFLWKA VLTGL VLLYYCFSIGITFYNKWLTKSF HFPLFMTMLHLAVIFLFSALSR ALVQCSSHRRARVLSWADYLR RVAPTALATALDVGLSNWSFL YVTVSLYTMKSSAVLFILIFSLI FKLEELRAALVLVLLIAGGLF MFTYKSTQFNVEGFA\WCWGP RSSVAFAGPSPRCSCRRLNSASR IPSTPCSTCSHSCSWGLFPLFAV FEGHLSTSEKIFRFQ\DTGLLR RVLG\SLFLGGILAFGLGFSEFL VSRTSSLTSLIAGIFKEVCTLL AAHLLGDQISLLNWLGFASAS REYPSTLPSKPCIPEVTQSPFQK PLVSVLLPVTLSDSDAGSVPGG SAAVTPLGRCGGHLQSGWVGP
10607	40975	A	10669	566	1026	PVMPKLIYVIRTGKQLKISLGH VDFQTVPSFLQQLNV/WQTIKA SEHPDRNDCVAVLRQKRSLSGS VENTSGKRKCWGGQSGFTTSE LEETEEDSDLSYGDVDGRK DALAEPCFMLIGEIFELRGKPQY QLEIWQVPTGTPDHLEEEANEK

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10608	40976	A	10670	1717	2340	GIDVQGKKNFSLSFLERLPRD FFSHQEEETEEDSDLSYGDDV DGRKDALAEPCFMLEIFELR GMFKWVRRTLIALVQVTFGRIT NKQIRDTVSWIFSEQMLVYYINI FRDAFWPNGKLAPPTTIRSKEQ SQETKQRAQQKLENIPDMLQS LVGQQNARHGII/NKYSNALQE TRANKHLLYALMELLIELCPE LRVHLDQL
10609	40977	A	10671	181	399	NRYIVPISQIMKRKRKVSIVLN VTGY*/RGM/RKPGLLNLAGFL LSTSPTSSENSNRCRGLWQIDPW EEGETYV
10610	40978	A	10672	66	535	CWWQDPLQRTQKSVTATSTK ID\ISNVKIPKHPADAYFKKQQL WKPRNRKLAGKLSTPAARDAP RARPPHEAPPPPPPELRYRVPP RPAPSSWRHPSGKGRRGPPGIG GRIVGERQLRTEYGNDRPGREG DPAPGCCGGARTLSLYGEIKLR VKF
10611	40979	A	10673	67	585	SAKSEMAGEKVEKPDTEKK PEAKKVDAGGKVKKGNLAK KPKKGKPHCSRNPVLVRGIGRY SRSAMYSRKAMYK\RKYSAAK SKVEKKKKEKVLATVTKPVGG DKVGGTRG\VKLRK\MPRI\YPT EDVPRKLLSHGKKPFSQHVRKL RASITPGTILILTGRHRGKR VVF
10612	40980	A	10674	2	282	CIALYCHLLNICKSKVKAEMQNL GREFIVPGMDSATSLIWATK/DL MNAVIEAPEKKPLLKREKQDES QSEIKWASQKKHLNPVQALSEF KAMDSI
10613	40981	A	10675	2	2798	
10614	40982	A	10676	14	2858	PDWRETKQRPSASGLWNLALA QLAAEMTAVHAGNINFKWDPK SLEIRTLAVERLLEPLVTQVTTL VNTNSKGPSNKKRGRSKKAHV LAASVEQATENFLEKGDKIAKE SQFL*E*LLAAVEYVRKQGD MKTAAGEFADDPCCSVEQGNM VQAA*TLLSAVTCLLILA\DMG NVYTLLIQLKVVEDDILKLRNA GNEQDLGI*YKALKPEVNKVNI MAVKRQQELKDVGHDRDQMAA ARGILQKNVLIFYTASRA
10615	40983	A	10677	1	4545	

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10616	40984	A	10678	1	1921	MAGLGMGEEGIPGGERWEHKR RAHIVSNHRITRTGTHPYTHSPY PHKDNVHTARREHKTQDLGTI RSVGHSSSEHTQHTTPTDTPPLV VIVCRVCYRPPHGETRAEYTRH RGQNRRTKFWVGIKEEKNLAQ QERTEEQLANIARGGYVLKDC AGQPELIFIATGSEVELAVAA YE KLTAEGVKARVVSMPSTDAFD KQDAAYRESVLPKAVTARVAV EAGIADYWKYVGLNGAIVGM TTFGESAPAEELLFEFGFTVDNP LASRAVRLRLPFNNDQVEAAV GWKLAVERHNGPTALILSRQN LAQVERTPDQVKEIARGGYVL KDSGGKPDII LIATGSEMEITLQ AAEKLAGEGRNVRVVS L PSTD I FDAQDEEYRESVLPSNVAARV AVEAGIADYWKYVGLKGAIV GMTGYGESAPADKLF PFGFTA ENIVAKAHKVLGVKAGSHIPRK KYDVP GKKSFS PVKYSTIGSPSP ERPVSITTIPNSFVIITANRVLHC NADTPEEMHHWITLLQRSKGD TRVEGQEFIVVEKLIRGLAMED SRNMFAL/S*IQRPRRQSH*KSN RRS*CLSQV*KRASW*AFTNI* WPD RHGLRKYSF/WSPGNIHHL RHC RML*VVRLLLRL LNAVYE
10617	40985	A	10679	1	2940	
10618	40986	A	10680	2	404	
10619	40987	A	10681	2	546	WCPHRWRPHTLTPTAAPAVTK SPEATHLYGQVSWNSQNLHLE GQLQSASLQGSFMLK**GDPLD F/VMSPPRPLFERL KARI SQSTK TFTPCERLEKRRTSFLEGLRRS FRTGSVVRQKVEEEQMLDMWI KEEVSSARASHDKWRKFQGMN QEQAMAKYMALIKEWPGYGST LFDVEGTD T
10620	40988	A	10682	1	555	
10621	40989	A	10683	1	627	

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10622	40990	A	10684	1	7232	MPEPPTHSMGSCAAGASLTSTA PCSTAPSPIDHLRAKECERTAQ DWQAAPPAALVRDPLAALVRT WRTFMSSSRIVNTPIGTLCLAQ GFQWFSVLSQVHASTDQEIQE MHDEQANPQNAVGTLDVGLID SVCASDSPDRPNSFVIITANRVL HCNADTPEEMHHWITLLQRSK GDTRVEGQEFIVRGWLHKEVK NSPKMSSLKLLKKRWFVLTHIPG LLQEFREDALNWGPDEKIFKET ELVNDMDKINGRIERA
10623	40991	A	10685	1	2146	IDSVCASDSPDRPNSFVIITANR VLHCNADTPEEMHHWITLLQR SKGDTRVEGQEFIVRGWLHKE VKNSPKMSSLKLLKKRWFVLTH NSLDYYKSSEKNALKGLTLVL NSLCSVPPDEKIFKETGYWNV TVYGRKH CYRLYTKLLNEATR WSSAIQNVTDTKAPIDTPTQQLI QDIKENCLNSDVVEQIYKRNPIL RYTHHPLHSPLLPLPYGD\INLN LLKDKGYTTLQDEAIKIFNSLQ QLESMSDPIPIIQGILQTGHDLRP LRDELYCQLIKQTNKVPHPGSV GNLYSWQILTCLSCFTLPSRGIL KYLKFHLKRIREQFPGTEMEKY ALFTYESLKKTKCREFVLSRDEI EALIHQRQDMTSTVYCHGGGSC KITINSHTTAGEVVEKLIRGLA MEDSRNMFALFEYNHVDKAI ESRTVVADVLAKEKLAATSEV GDLPWKFYFKLYCFLDTDNVP KDSVEFAFMFEQAHEAVIHGH HPAPEENLQVLAHAHATSSIMQG DYTLHAAIPPALEEVSLSLQRLK ARISQSTKTFTPCERLEKRRTSF LEGTLRRSFRTGSVVRQKVEEE QMLDMWIKKEEVSSARASIIDK WRKFQGMNQEAMAKYMALI KEWPGYGSTLFDVEVRTGCHV LGWAGCWHLRTWITAKFMWR EDKMEHFALSTSFFRAPKIVPLT PPFSSQFLFSCVVNASVILGMN

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10624	40992	A	10686	28	561	MDIVQDATFVYATLQTAHYHR DAGLPVYLYEFEHHARGIIVKP RTDGADHGDEMYFLFGGPFAT GAKVPPDTPTGCPVSHLWMQT HPSIGWPQGAHQFLICYALPNE SLLLRKQKQKE*GGRNPNDG NLPCWPRYNKDEKYLQLDFTT RVGMKLKEKKMAFWMSLYQS QRPEKQRQF
10625	40993	A	10687	148	444	
10626	40994	A	10688	1	1531	PLPGARRCLHEFWGQLASMYV STRERYKWLRFNEDCLYLN VYAPARAPGDPQLPVMVWFP GGA FIVGAASSYEGSDLAARE KEGL VFLQHRLGIFSFLSTDD SHARG NWGLLDQMAALRWVQ ENIAA FRGRPREILTLFGQS AGAMSISG LMMSPLASGLFH RAISQSGTAL FRLFITRNPL KVAKKVAHLAGC NHNSTQIL VNCLRALIRAKVM RVS NKMRFQLNFRDPEEIIW SMSPVVDG VVIPDDPLVLL TQG KVSSVPYLLGVNNLEF NWLLP YIMKFPLNRQAMR KETITKML WSTRLLAKNSW GAEHGSKSL VGPPLAQLAP RPQNITKEQVPL VVEEYLD NVNEHDWKMLRNR MMDIV QDATFVYATLQTAHYH RDAGLPVYLYEFEHHARGIIV KPRTDGADHGDEMYFLFGG PFA TGLSMGKEKALSLQMM KYWANFARTGNPNDGNLPC WPRYNKDEKYLQLDFTTRV GMKLKEKKMAFWMSLYQS QRPEKQRQF

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10627	40995	A	10689	138	1898	ICKYIMNDQWARQNCLHSPTY GPSENVLSSAESKPEIQLSPSCPL IFSSQQALSQHVWLSHLSQLFSS LWAG\NPLHLGKHYPEDQKQQ QDPFCFSGKAEWIQEGEDSRLL FGRVSKNGTSKALSSPPEEQP AQSKEDNTVVDIGSSPERRADL EETDKVLHGLEVSGFGEIKYEE FGPGFIKESNLLSLQKTQTGETP YMYTEWGDSEFGMSVLIKNPR THSGGKPYVCRECGRGFTWKS NLITHQRTSHGEKPYVCKDCGR GFTWKS\nLFTHQRTSHGLKPY VCKECGQSFSLSKNLITHQRAH TGEKPYVCRECGRGFRQSHL VRHKRTHSGEKPYICRECEQGF SQKSHLIRHLRTHTEKPYVCT ECGRHFSWKS\nLKTHQRTSHG VKPYVCLECGQCFSLS\nLNK HQ\RSHTGEKPFVCTECGRGFT RKSTLITHQRTSHGEKPFVCAE CGRGFNDKSTLISHQRTSHGEK PFMCRECGRRFRQKPNLFRHKK AHSGAFVCRECGQGFC\nAKLTLI KHQRAHAGGKPHVCRECGQGF SRQSHLIRHQRTHSGEKPYICRK CGRGFSRKS\nNLIRHQRTHSG
10628	40996	C	10690	160	294	
10629	40997	A	10691	3	82	SWACAIHPTGYLIEQAGG*WVT ARRD

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10630	40998	A	10692	1	1399	MLRRYRPDITSCHGSTAESKGG VVL DVSGRARPLRRTRNSPST SLTSSKMSGLDGGNKLPLAQTG GLAAPDHASGDPDRDQCQGLR EETEATQVMANTGGGSLETVA EGGASQDPVDCGPALRVPVAG SRGGAATKAGQEDAPPSTKGL EAASAAEAADSSQKNGCQLGE PRGPAGQKALEACGAGGLGSQ MIPGKKAKEVTTKRAISAAVE KEGEAGAAMEEKKVVQKEKK VAGGVKEETRPRAPKINNCD SLEAIDQELSNVNAQADRAFLQ LER\KFGMRRLHMQRISFIIQNI PGFWVTAFRNHPQLSPMISGQD EDMLRYMINLEVEELKHPRAG CKFKFIFQGNPYFRNEGLVKEY ERRSSGRVVPFSTPIRWHRGQ\ DPQAHIHNRNREGNTIPSFFNWFS DHSLLFDRIAEIIKGELWPNPL QYYLMGEGPRRGIRGPPRQPVE SARSFRFQSG
10631	40999	A	10693	3	441	
10632	41000	A	10694	190	2716	
10633	41001	A	10695	1	793	MARQKKMGQSVLRVFFLVLG LLGHSHGGFPNTISIGKRKRASR RSRLSLTRDHCPGKAFFAVFRA ERSTGGEQEAGMLQGGEESRLF GSLWTLWPWRACSSWKLSQGD ADCLAAPGRITRARGAQSVVSG CRETGWGLFMRNTVQEHSFR FAVQLYNTNQNTTEKPFHLNY HETSPIPLKSPPVSFCCALVVHS TLHRPSLCSVSSLAHRSHIPSPH CHCKNCCCTPLQPTNVLDYA LFARSREKANVTCLKLPLTEVIPF
10634	41002	A	10696	2	2744	
10635	41003	A	10697	2	2740	
10636	41004	B	10698	47	7237	

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10637	41005	A	10699	426	2118	GFGHTVHAAEGGDFGGSWQG DSVLLCSTVDPGWSAASRGKG SPCRGPLCGCCPGRSSQPSKVE VAVSCSCGALLGCMPPVLA LEGCPRGVAAKKGKSPQAQTV RRSPSADQSLEDSPSKVPKSW FGDRSRARQAFRIKGAASRQNS EEASLPGEDIVDDKSCPCEFVTE DLTPGLKVSIRAVCMRFLVSK RKFKESLRPYDVMVIEQYSAG HLDMLSRIKSLQSRQEPRLPVQ QGTRTGIDMIVGPPPPSTPRHKK YPTKGPTAPPRESPQYSPRVDQI VGRGPAITDKDRTKGPAEALP EDPSMMGRLGKVEKQVLSMEK KLDFLVNIYMQRMGIPPTETEA YFGAKEPEPAPPYHSPEDSREH VDRHGCIVKIVRSSSTGQKNFS APPAAPPVQCPPSTSWQPQSH RQGHGTSPVGDHGS LVRIPPP AHERSL SAYGGGNRASMEFLR QEDTPGCRPPEGTLRDSDTISIP SVDHEELERSFSGFSISQSKENL DALNSCYAAVAPCAKVRPYIA EGESD TDSDLCTPCGPPRSAT GEGPFGDVGWAGPRK
10638	41006	A	10700	1	774	
10639	41007	A	10701	124	815	HPGTAMDALNSMQNFLRGRPK TFKSL ENAIEWSVKSGQIRNLES ARVSMVGQVKQCEGITSPEGSK SIVEGIIEEEEDEEGSESISKRK KEDDMETKKDHPYTWRIELAK TEKYWDGWFRGLSNLFLSCPIP KLLLLAGVDRLDKDLTIGQMQ GKFQMQLPQCGHAVHEDAP DKVAEAVATFLIRHRFAEPIGG FQCVFPGLLVTCPPLLQHRAL LVNTFAPEAHC
10640	41008	A	10702	69	370	
10641	41009	A	10703	1	224	MCNTPAYCDLGKAAKDVFNK GYGFGMVKIDLKTCSGVEFS TSGHAYTDTGKASGNLETKYK VCNYGLTFTQK*NTPAYCDLG KAAKDVFNKGYGFGMVKIDLK TKCSGVEFSTSGHAYTDGKA SGNLETKYKVCNYGLTFTQK
10642	41010	A	10704	2	171	

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10643	41011	A	10705	1	740	MCNTPTYCDLGKAAEDVFNKG YGFQMGKIDLKTKSCSAVEFST SGHAYTDTGKASGNLEPECKV CNYGLTFTQKRNTDNTLGTEIS LENKLAQGLKLSLDTILVPNTG KKSGELKASYKWDCFSVGSNV DLDFSGPTIYGWAVLVFEGWL AGYQMSFDTAKSKLSQNNFAL GYEAADFQLHHTVTDGTEFGG SIYQKVNGIEMSINLA WTA/GSN NTHFGIATKYKLD CRTSLSAKA VVLGTRVGSC
10644	41012	B	10706	1	318	
10645	41013	A	10707	2	100	
10646	41014	A	10708	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSVP VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSSISSTEYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKP DGS CIVSLKIDWIIERYQLPQSYQLY YFELAI PVGYFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADVLIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFE PDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMLKNVVRETDEVG KARLTWGIGTINVCAADVLIV PTPAELFDYTSALQFFDMLRD LKNVDLKGFE PDVRILLTKYSN SNGSQSPWMEEQIRDAWGSML LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
10647	41015	A	10709	284	969	RVSRGRKWWFIALKRMPAMKK AMNLFGLSNVRTVHPEGFTV YISTHISFPLSGYRTGLRSFGLV KQKKSPIRMPCVYTNPCVSIHP LWLRLRSPSARWLRCGSPSLG WTRTEPAPSPPRGGRTEKARIW EVTDRTVRTWIGEAV/AAHAA DGVTFSPVPTPHTFRHSYAMH MLYAGIPLKVLQSLMGHKSSIS TEYTKVFALDVAARHRVQFA MPESDAVAMLKQLS

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10648	41016	A	10710	2817	3297	AGCVRHRLSENRLDHRALPAA SKLPAYA*LPPPLPAGRL*RIPH RQFL*HQI/RL/PTERRCLLTRRT EKARIWEVTDRTVRTWIGEAV ARLAADGVTFSVPVTPHTFRHS YAMHMLYAGIPLKVLQSLMGH KSISSTEVYTKVFALDVAARHR VQ\FAMPES
10649	41017	B	10711	1	963	
10650	41018	A	10712	1	1296	
10651	41019	A	10713	1	1167	
10652	41020	A	10714	349	3195	
10653	41021	A	10715	163	864	
10654	41022	A	10716	576	754	
10655	41023	A	10717	1	1449	
10656	41024	A	10718	1422	1600	
10657	41025	A	10719	489	726	ISCCSFFSPRPPH\TFRHSYAMH MLYAGIPLKVLQSLMGHKSIS TEVYTKVFALDVAARHRVQFA MPESDAVAMLKQLS
10658	41026	A	10720	1	1596	
10659	41027	A	10721	1	1572	
10660	41028	A	10722	2	100	
10661	41029	A	10723	561	804	TLRQTKPDNSADPPHT\FRHSY AMHMLYAGIPLKVLQSLMGHK SISSTEYVYTKVFALDVAARHRV QFAMPESDAVAMLKQLS
10662	41030	A	10724	1	867	
10663	41031	B	10725	1	825	
10664	41032	A	10726	1	942	
10665	41033	A	10727	2	100	
10666	41034	A	10728	39	359	RILGKGAGQTRAESLVWGRGV PARCC*PGGPFLVPGPPP*VR/H LSYARPM/L*PGIPLKVLQSLMG HKSISSPEVYRKVFALNVAARH RVQFAMPEFDAVAMLKQLS
10667	41035	B	10729	41	724	
10668	41036	A	10730	1	1023	
10669	41037	A	10731	1	1314	
10670	41038	A	10732	1	1128	
10671	41039	A	10733	892	1611	
10672	41040	B	10734	78	1099	
10673	41041	A	10735	1	936	
10674	41042	A	10736	766	1056	
10675	41043	A	10737	1	1422	
10676	41044	A	10738	1214	1721	

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10677	41045	A	10739	2592	3233	RWGRWRTGGSSRSEPTMELRA PAWPRGRPGQGARGPAGSEL GNATAPSPACLCRNILCRMEES PNTDGKRPETGSNKRKGAGDK WWIKITGINRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSVPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKVISSTDFYTKVFALDVA ARHRVQFAMPESDAVAMLKQL
10678	41046	A	10740	6323	7130	
10679	41047	A	10741	319	522	RNTRYWVINSISVIPSSALISK SPRLMAKKTAFHFLGISRTSVAE FTFTRSGISRDHCVKGAGAADR RPNAPPRAEFQSGWFLIMECFA R*VGDPQL/TA/HFDAV/RRE/IM PL/PREG/KTL/QTEVREMPKRC AVFLAINLGDRFDIKADEGGIT DIEFITQYLVRLRYAHEKPKLTR WSDNVRILELLAQNDIMEEQEA MALTRAYTTLRDELHHLALQE LPGHVSEDCFTAERELVRASW QKWLVVEE
10680	41048	A	10742	2	640	
10681	41049	C	10743	1	2358	
10682	41050	A	10744	1264	1894	RGDKPQHIVTVHRADVVKQAL FKQRRHYHAFNMFFGAFEQL FNWRHARENFFPAGKQLCOMV VERADIFGNRHFIIVVENHQHIR TDIARVIHRFKRHACGNRAIAN DTDGAAIFAFTAILYGIQFSCAS FYLFVVYEHGSLKTVGCPLQEV /WRTALESCKPAHIQLSGVLAI/S SIVMQSVNAMPSWSGYSSSQ ASAARWLLARSLIC

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10683	41051	A	10745	872	3111	VLKPNHLTERKGC/GFACGRYG KLGAWELDYSPLDIIFLNDP MNAMTAGERKIDGRQFYLR QIMHLFSTRSSGILYEVDARL RPSGAAGMLVTSAEAFADYQK NEAWTWEHQALVRARVVYGD PQLTAHFDAVRREIMTLPREGK TLQTEVREMREKMRHLGNKH RDRFDIKADEGGITNIEFITQYL VLRYAHEKPKLTGWSNVRL ELLAQNDIMEEQEAMALTRAY TTLREPRFSRFSLFWGCSPLGLF DYLADLFKIDNSHGGRFKTVLL TFLPPALLYLIFPNGFIYGIGGA GLCATIWAVIIPAVLAIKARKKF PNQMFTVWGGNLIPAIVILFVLP WFYFIPPGLICTSLVYRASPPIS MPAKAVAYCVLRISGGDGSCD VICRGKVADRSKFVNPNSKT HTEPTQQSQTATSNRTSATTAE QRSDEKEGNNRTRHEEQRSQN ATQHKRRERATTTQKTCSETVT PTTMNMCNEPELRRHARVLP VLYIVQRRYDESHLRISISACNV CRTERHAVHTDETIHSTVVADC KERVAVMRLRLPLCAACRHIG DVIVYSAYVCEHRCMRLLATR RHYVVTLTTHLRRRLFLTEVNA RYVCIYDDEHSRSSTVTHAHP DHQSAHYDTYVYDIGTVSYMR LNTSVRLIRRAHTCTSRALMD SHSKDGRPMDYASAVVTHPL
10684	41052	A	10746	1577	1668	TINPPELAFVKTVH*SPRICLGF HIFLLN
10685	41053	A	10747	486	674	HWWKNWRCWIPVIWH*RRSR TIWRCKKWITASTLLSRSSPSK LPPCMSGFQPVVAGRKRR
10686	41054	A	10748	254	396	ADDQIPHSTHLKLSLEVEENQ Q*EI*RPLLQ*GGMSVPRCVHG RSG
10687	41055	A	10749	3	674	ISAEINRPF AIRGDLG/VVWERQ KQETGWRSWVP/WPHVHAEDII LGNPPDI/PEVTMVHLPRVEATL /APLALLTKTVWLPWIKLESPRI RFQFSHHVRRVLCEDAYYKL TLAQVEKLKNGGKVIASDELM TKFRIPNTLEFCAPVMADAPAI ALLRLSLACDLAQAMMPAFH KPISSSFVNDYAGTSFACAASD MDERRMLNAPLSRLTLVEKL RRCWIPVIRH

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10688	41056	A	10750	1	1755	
10689	41057	A	10751	1	1662	MSKPKYPFEKRLEVVNHYFTT DDGYRIISARFGVPRTQVRTWV ALYEKHGEKGLIPKPKGVSADP ELRIKVVKAVIEQHMSLNQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQAL SKPDKYADVKKRISEIYHENRG RYGYRRVTLSLHREGKQINHK AVQRLMGTLSLKAAIKVKRYR SYRGEISSTTKLFLTAFRMIVVA IILIAITFDWNRLKPTINQKVS AE LNRPF AIRGDLGVVWERQKQE TGWRSWVPWPHVHAEDIILGN PPDIPEVTMVHLPRVEATLAPL ALLTKTVWLPWIKLEKPDARLI RLSEKNNNWTFNLANDD/NKD ANA\NRRHGRFGWIIFFSIKGGS PLMTNDIHGSLVYTTGKPRPKL EGDVESRQLRLADLGPLIGVDS GKGAEKSKRSEQKKGEKSVQP AGKVLPYDRFETDKWDVMDA DVRFKGRRIEHGSSLPISDLSTHI ILKNADLRLQPLKFGMAGGSIA ANIHLEGDKKPMQGRADIQAR RLKLKELMPDVN
10690	41058	A	10752	1	477	SELGHAGLNGDILVWNPVLED AFELSSM GIRV\ADTLKHQLA \GDEDRLELEWHQALLRGEMP QTIGGGIGQSRLTMLLLQLAHI GQVQCGVWAAA VRESVPSLPL QLFHFTRHVVRQPLSDKIRNHQ RIGIKPPALQAFHNGAKTTGKI GADTKLLA
10691	41059	A	10753	414	794	RPSPLPTGLGDTGLGFLPRFIEM EKL PFDVAEAEQELQEGPLPEY SGPGLALAKWGLGLKQVVM ASLFVALFLPFGRVAQELSLACL LTSLVVTLKNINSMTAGILVC LVTVVSPGLIKVLIYDQ
10692	41060	A	10754	88	227	
10693	41061	A	10755	26	261	
10694	41062	A	10756	164	361	
10695	41063	A	10757	1347	1656	RVGRPGHRASQAQSGGNPQNHR RLGEPVSARHPAYLSTGSGDAA AARYRRSA*SLRR*SRASSHPPE RAGTPVAPGTIDIFRWRTAARQ HRPRLYRRLP HSAA

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10696	41064	A	10758	2096	2248	RLIGLHGQNSRSVPQLPMESAS VA*RCTAALDGGVSSTSTRWLF ASCTRL
10697	41065	A	10759	1	2240	
10698	41066	A	10760	1	1082	MEHERYVGISNLMKPELYLA VGISGQIQHVMVGANASQTIFAI NKDKNAPIFYADYGIVGDAG ALMSDIFDAIIVGAGLAGSVA ALVLAREGAQVLVIERGNSAG AKNVTGGRLYAHSLHIIPGFA DSAPVERLITHEKLAFMTEKSA MTMDYCNGDETSPSQRYSVL RSKFDAWLMEQAEAEAGAQLIT GIRVDNLVQRDGKVVGV EADG NRVMKKILTTPIKAEDLQDIRV GDVIYL*RHRSLSVG*RAESGG* RSGRIVKRTG
10699	41067	A	10761	987	1191	
10700	41068	B	10762	1	1506	
10701	41069	A	10763	204	527	GPDRQCIGPLAE*NTGNSHKAA LRQQRAEGRWWQKPHGEWRA ATADGRTYAAISAQATAPQSPA GQSTMPPRPPRWLSTPALPVMPA VTVDRQITPASVSTTKQAISA
10702	41070	A	10764	1041	3024	
10703	41071	B	10765	1	763	
10704	41072	A	10766	729	989	HLTRQGIPTDLQLRVLSVRRKT NKQKGHPHRKRICTSPSSKTKS R*NHKDGEKTEQKNWKL*NAE HLSSSKGTQFLTNGPKLDGE

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10705	41073	A	10767	89	1755	LSEGKLTNRKDIHTKTPSVRHH HQRPKCWKFWPGHSGRRRK*R /CIQVGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFIELEKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYNYLIFDKPEKNKQWGKDS LFNIWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRSKTIK TLEENLGNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKLKSF CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKWVKDTNRHFSKEDIYA AKRHMTKCSSLAVREMQIKT TMRYHLTPVEEVVRAGEMAKTR RCQNVKGASEEGIRALALFLIN LTVHMEGNHIDGDIEIQTNRSP LQAPGEICESFTALMAMQLLSKL FWS
10706	41074	A	10768	533	760	
10707	41075	A	10769	1067	1225	
10708	41076	A	10770	1080	1250	SSGLHSDARLVQYTQINKYN PAYKQSQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10709	41077	C	10771	55	1842	
10710	41078	A	10772	1575	1745	SSGLHPWDARLVQYTQINKCN PAYKQSQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10711	41079	A	10773	2798	2871	
10712	41080	A	10774	601	876	
10713	41081	A	10775	1194	1421	

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10714	41082	A	10776	587	1683	GWKFWPGQSGRRRK*/R/CIQLG KEKVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLKEIKEDTNKWKN PCSWVGRISIVKMAILPKVIYRF NAIPIKLPMTFFTELEKTTLKFI WNQKRARIAKSILSQKNKAGGI TLPDFKLYYKATVTKTAWCWY QNRDIDQWNGTEPSEIMPHIYN YLIFDKPEKNKQWGKDSL FNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENLGITIQDIGVGKDFMSKTPK AMATKAKIDKWDLIKLKSFCT AKETTVRVNRQPTTW
10715	41083	A	10777	1260	2176	SSGLHPWDARLVQYMQINQCN PAYKQNQRQKPHDYLNRCRKG L*QNSTTLHAKNS/AIN*CWKF WPGQLGRRRK*/R/CIQLGKEEV KLSLFADDMIVYLENPIISAQNL LKLISNFSKVSQYKINVQKSQA FLYTNNRQTESQIMSELPFTIAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWKNIPCSWI GRINIVKMAILPKVIYRFNAIPIK LPMTFFTELEKTTLKFIWNQKR ARITKSILSQKNKAGGITLPDLK LYYKAIVTQNSMVLLPKQRYR PMEQNRALRNNAAYLQLSDL
10716	41084	A	10778	3813	3983	SSGLHPWDARLVQYTQINKCN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10717	41085	A	10779	1312	3348	
10718	41086	A	10780	1636	1815	
10719	41087	A	10781	67	403	KFLCRPPIIRPPKTFNTLIVLARR CIQCFRFFDIACFN RVGKGFGV GHQLRGFRHDIRGFAQWTHLP DGCAFRDRCYAAGAQCENVPA LTACGDNNQR\GACWYPQQEV
10720	41088	A	10782	506	915	WASVKSPVPCWNCWISHRRRV TCRHVRFAPGFNLAKAV/QGAA LVITGKGRIDSQTAGGKAPLGV ASVANQFNVPVIGIAGVLGDGV EVVPQYGIDAVFSILPRLAPLAE VLASGETNLFNSARNIACAIG QGIKN
10721	41089	A	10783	1	906	

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10722	41090	A	10784	2	597	SILKVACDVDNPLVGARGAAA VFGPQKGATPEMVEELEQGLQ NYARVLHQPEINVCQMAG\A GAAGGMGIAAP\VFNGDIKPGI EIVLNAVNLAAQAVQGAALVITG EGRIDSQTAGGKAPLGVASVA KQFNVPCLDGLLAYVGDGVEV VH\QYGIDAGFNILP\FLAPLAEV LASGETNLFNSARNIACAIIKIGQ
10723	41091	A	10785	1	1140	
10724	41092	A	10786	13	628	LLIPARPPGINPYWYWKVSEANLI RYFQQVGDSVTLPVMLYNFPA LTGQDLTPALVKTLADSRSNIIIG IKDTIDSV AHLRSMIHTVKGAH PHFTVLCGYHDHFLFNTLLGGD GAISASGNFAPQVSVNLLKAW RDGDVAKAAGYHQTLQIPQM YQLDTP\FVNVIKEAIVLCGRPV STHVLPPASPLDEPRKAQLKTL LQQLKLW
10725	41093	A	10787	3	1185	EQSGRGARDGGARDGVREGG\ SWTQQHGLPLTKVELATVAEY PVCLWQRLTL\SPQYGSIP/RGD QSDGWKVDYNGPFS LWKGQH FVINGIDTCSGCKFAIPVCSASA KLLPMSSQNVYHRDILHRIDSE QGTHFRVKEVQQWALGRGFY WSYYISHHPEAAGLVEQCNGIL KTPSQFQMGRNTLQGWGKVLP SLEGCAFSSSKSNLCSVVLKVF VPKEGMVPPGDTTMIILNCKLR LPPMPLNLLASKEVTVLD/YQG EIGQLLHNRGKEECVWNTGDC LTYLLILPSSVIKVKPKPQHPG RTINGPDPGSKMTWVTPPAGA VFLIGSWLRYDYGQYTWRAAS SQMLDRKGMNLSNLFHIGILG IFVGHFFGMLTPHWMYEAMTY GSCDTDNANV
10726	41094	A	10788	396	504	WKRLEIRAIQGDSPVHKNARA GELDE*AATRAIPG
10727	41095	A	10789	24	611	EILPVPGPVVIW/AIFRRIAGES WSAIVISGLSIARHAQQKRIITFT ASLAARLEIALKIVRNADGTES ASEQLYQVVGAGCKMPWQSE AMKDVLCIDKRRLMRRTGGTE TSKYPEEKSTEIPVAASERGG AQLSNQCATEAVVLTRVDSHL KVGDSLSTTSFLKKFAARFGG QLEKALGLGSMQAFSDIRGL
10728	41096	A	10790	212	578	

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10729	41097	A	10791	1	1707	
10730	41098	A	10792	3	313	NAE/TVKMFTTSSKEDATFGL/G WRVNGNATMTPTFGT/LASPQT YGHTGSPPLPPICPVRPPGYLRR LSPRFPRLFGISLPQRPPGILERS LQRRRNPSGWRRRNQ
10731	41099	A	10793	1	1992	MDVQSAADDTGLPMLVVRGPF NVVWQRLPAALEKVGMKVTD STRSQGNMAVTYKPLSDSDWQ ELGASDPGLASGDYKLQVGDL DNRSSLQFIDPKGHTLTQSQND ALENAILAVIRHEICLSDVVRIR ASRRFDKTSCTPDRQKILKLG LLPAGWLADVDPRLVGVMNV WTLVPAALFFFGAGMLFPLAT SGAMEPFPFLAGTAGALVGGL QNIGSGVLASLSAMLPQTGQPG VDDDLNGIVDRAVLAAAGDAD VASGAARLSARHSIVISSMGE RCCFIRSIRITRICGFLAAGVGLD QLAPDFATPVIRELLALLCLFS GGLAMYGYLRWLRNEKAMRL KEDLPYTNSLLIISLILMVVAVI VMGLWIPPTCIVDDRMAYIPG LADSPNDTIKGNLTLRISDLLH HSGGFADPQYPNKAVAGALY SQDKGQTLEMIKRTPLEYQPGS KHIYSDVDYMLLGFIVESVTGQ PLDRYVEESIYRPLGLTHTVFN LLKGFKPQQIAATELNGNTRDG VIHFPNIRTSTLWGQVHDEKAF YSMGGVSGHAGLFSNTGDIALF NAETVKMFTTSSKEDATFGLG WRVNGNATMTPTFGTLASPQT YGHTGWTGTVTVIDPVNHMTI VMLSNKPHSPVADPQKNPTMF
10732	41100	A	10794	2	137	NCLSPVSAN*WPAKTGRPILPS ATVTASTRNVLKHWRIWVST VC
10733	41101	A	10795	271	553	ATQRQDLHFVRSPGDAVYTQIT PEAADAVVARNPDTAQHLHC/ VYP/HTSNAALAQKYLHIAASP EVMVPLSAFHAASYSMFFMEF NLIAMWANFS

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10734	41102	A	10796	1	747	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGTRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRAVDLIS NVAGDRVITYRITKGEDLREQG YMGLHTVGRGSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRVLV
10735	41103	A	10797	444	548	
10736	41104	A	10798	951	1648	TTGRFPPSVQDSFVNESSRMGL PDEFTLQREFERARQQGALAQ W/IAAFEGGFTGIVATLDTGRPG PVMAFRVMDALDLSEEQDVS HRPYRDGFASCNAGMMHACG HDGHTAIGLGLAHTLKQFESGL HGVIKLIFQPAEEGTRGARAMV DAGVDDVDYFTAVHIGTGVP AGTVVCGSDNFMATTKFDAHF TGTAAHAGAKPEDGHNALLAA /AQATLALHAIAPHSEGASRV
10737	41105	A	10799	1495	2282	FDRHVGEFFLNQLETTNSLAKL HALIGVARRIFKGAHRRTVVGE GYQETFMVELFFDAVKAVTFPT EHVFLVQFHVVKGDFTAAIHTQ TELFKFGHFDARFAHINKPFGV DRFVRRSPVARHHHDVRGVGA AGNKTLTTIKINLTISTGISRFQA THVGARARFGDR*VRTDSTTTV GHRDCIITGGHR/HKSFQPGHEA PQAVPLPGRFH*PSHDHCR* LVSLAGAA YRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD
10738	41106	B	10800	1	3618	
10739	41107	A	10801	3	490	TGIVATLDT/GRPGPVMAFRVD MDALD/LSEEQDVSHRPYRDGF /ASCNAGMMHACGHDGHT/AIG LGLAHTLKQFESGL/HGVIKLIF QLHRYAAHAGAKPEDGHNALL /AAAQATLALHAIAPHSE/GASR VNVGVMQAGSGR/NVVPASAL L/RQPTRSALNTTQQLNAR

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10740	41108	A	10802	1	513	MGIESLQAFILRSAGALGVWVY TFLEIRILPTGLHHFIYQQFISGP AAVEGGIQMYWAQHLQEFSL AEPLKSLFPEGGFALHGNSKIFG AVGIYLAMYFAAAPENRVKVA RLLIPTPLAAMLVVIPEPLAEFTF LFISPILYAVHAVLTASMSPPM YLPGVVGNMGEKID
10741	41109	A	10803	1	4941	
10742	41110	A	10804	1	1083	
10743	41111	A	10805	1	1363	MPVRKNMIMNEGNITPTNGC RIRASCGVPMICINQLKDGNNK PSPLTAARMKQKAILFLIRTVR TDTHVVEDTGRKGSRKANSRE RFPDAFPEFHGFADFRVLRQAM IQIWLVSVMVQHVNVCITDAC RIVQTRIVVTAGFQLSNASLVA MRRWVYRVRRIQYRRTTQTAV FHSTHGNYREGQPVGTLLIDRY KANENVELVHYAQPLLNEADS LAKVMPSDIPLKQRRWLGLQM LEGDIYSRAYAGEASQHLDAAL ARLRNEMDDPALHIADARYQCI AAICDVVSNTLTAEPSRFTTAV DKIVLNRFLGLPIFLFVMYLMF LLAINIGGALQPLFDVGSVALF VHGIQWIGYTLHFDPWLTIFLA QGLGGGINTVLPVPQIGMMY\ CFSSFLKTPALACREIFVPLMRL RVNLRWYPPVL*RISWWTNSRI PTTFSTRGSACWRATPAK
10744	41112	A	10806	199	1083	RLFEHPRLGVA AVENGALGKR SAVVLPGFDVNHKTRFIEFVK SAIEGNRLTVRAIGPQFFTQTPV IVFNQGVSGAQNIAGRAVLLQ TNSFGTGEIIKETLNILHLRPAPA VD*LVVITDDHHFAGVARQQA DPRVLNVVGILEFVHQDIGKTF AVVLQDMRLVKPQLVSAQQQL GEVHQARAVTRFLIRLIHLLPGL LHRITVALNMMRTQAFIFLAVD VPHCLPRRPLLLVEVHGFDQTQ KVAAWRGHRFALFVIKAVEQV RVNVHWHRRVKIGWAEKRNAL RQKAGNFQMRQ
10745	41113	A	10807	49	273	DFLGRGAFNVINIGAWASRPVQ GSTVDLSHGLHLVLHLKNNL*F YGFDSHFLKSFFYKGTSSISIQVE VGISQGNL
10746	41114	B	10808	91	2183	

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10747	41115	A	10809	8	219	FSLWPL/KKFSNRFLKKKPMEF GSWTTREILIASFAGVRGAILTA GVLSIPLLLPDGNVFPARYELVF LAAV
10748	41116	A	10810	84	509	
10749	41117	A	10811	3	163	ENTTWLYAD*NAGRDADFGHA KRKWTLLAILAAVATAMAN RQPGAGLFALFT
10750	41118	A	10812	1	707	MGWRMGIWLRVFTVAKHLQR AESDQIGFRLKEHCWKRYAVR HPVKDVS GFSPVLTVMNRAPQ SN/PARRTVGWLRFRLRKR/ RKPRPLPLSPLHMDV/HAGNLV HSASGLKLIDW/EYAGDGDIAL E/LAAVW/VENTEQHRQLVNDY ATR/AKIQPAQLWRQVRRWLP/ WLLMLKAGWFEYRWRQ/TGD RQFIRLADDSWRQLHRSNKESS RELVARLRVFAQSSGGAVDQE GGRVQCFREGL
10751	41119	A	10813	1	227	SFINVERYRAEPQTADAAPLKR GAFGSWLPEDHYAED/DHQQ YLHKNPYGYCGIGGIGVCQAY KIVQIQYIARTA
10752	41120	A	10814	1	283	
10753	41121	A	10815	315	569	
10754	41122	A	10816	65	580	SDRS*IPVRPTHRDSGNRHDGSS GYCRCYG*HG*HRGIRYRCWPE KSQTRSGLLP/LTVNYQERTYA AGRIPGSFFRREGRPSEGETLIA RLIDRPIRPLFPEGFVNEVQVIA TVVSVNPQVNPDIVAMIGASAA LSLSGIPFNGPIGAARVGYINDQ YVLNPTQDELKESK
10755	41123	A	10817	235	1236	TDHDGRNDTQRIGSGERNRPF NANTAHHQCRFAGFALFCGEIF TTNQRQPHQRRDTNTHGSD GHHGINTLSNANQHEGIGHFVN RTAHIERQHQT DHRQHNNAA NSGTEVSQ*AR*HAAV*RYVAE REIHSGDRCGKRNSAHKIMPG WWCALPDTAPSLSKVVFVKGC PHLCPWCANPESISGKIQTVRRE AKCLHCAKCLRDADECPSGAF ERIGRDISLDALEREVMKDDIFF RTSGGGVTLYRGEDPAEDARY AHTNQPRQNKA VVDDEATDV GGAGTVKLNRCQIARISRQDVI TVASRCEHGFCPCDTVHRHD GDHTGTEDFVF
10756	41124	A	10818	1	400	

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10757	41125	A	10819	783	1116	SVLHLYYEQNT\HDTRGYRPI KTLDIVPAFEASHLLWQSYENS WEQIFSASVGASWQKHYGTDV LTQLGYGQRIIWNDIIDAGATL RWEKRPYDGDREHNLYVEFD MTFRF
10758	41126	A	10820	3	474	TCGE/AASIVDRIRGFFEPSSILV STLVLTLRPTGLLPLVTDSLPM RLLPTEIMAGSPIRS/RDISLGDD PGINGQRAQGTWERWTVRADE PQAFHIEGVMFQIRNVNGAMPF PEDRGWKDTVWVDGQVELLV YFGQPSWAHFQFYFNSQTHKV GPRAVA
10759	41127	B	10821	93	786	
10760	41128	A	10822	191	748	GPATPRQPFKVLASLGRLVQHG GRWDAQHLHNAVHLVDLIGAT EEGLSGVHLHKDAAQGPHVNG QVVGCAQEHLR*AVEAALDIL VDPLAKLAGAAEVHNLDGAAL GVAQQDVFGLEVAVNDAAEQ AWPERAVPCRAAAPASGSGSA RRRGSGCCAGGRTGCRTAAQIP STSGFRNMKCRFCTI
10761	41129	B	10823	1	2724	
10762	41130	B	10824	116	2458	
10763	41131	A	10825	1	1317	

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10764	41132	A	10826	99	2052	NPADGRTGFTLCATGEALSSAT IAAAERRQALQEGCDDILS/HG DADMVSMAR/PFLADAELLSK AQSGRA/DEINTCIGCNQACLD Q/IFVGKVTSCLVNPRACH/ETK MPILPAVQKKNLA/VVGAGPAG LAFA\FNIAKQIPGKEEFYD/TL/ RYYRRMIEVTGVTLKL/NHTVT ADQLQAFDETILAVG/IVPRTPI DGIDHP/KVLSYPDVLRDKAPV/ SN/KVAIIGCGGIGFDTAM/YLS QPGESTSQNIAGFC/NEWGIDSS LQQADCDAKASKPGQGLGK TTGW/HRTTL/LSRGVKMIPGV S/YQKIDDDGLHVINGANQGS DMLRLQGELDSASRIGRRSAAP KLGSLNDGRCFINCHILDRLPY KGLVPACSWNGGSLDPLEGRP DEPHVEVLGIPPAAMLDAQAPRL ASTLNGCLGVAGPYEDERTQE GLPGPRDTAAEEVLGVQTGGA GSRGRVVRGPQADLPSASGPGA ACWSMSPPPDQPPCVLAHGFFR RTPTSTQQRPAEQCFHSPAPLEL PLSSTSSILSFAEYGNAMAWLY RGKILPSGTPDDLKAQSANDGN PDPTMEKAFIQLIHDGIRSIAMS NPILSCRRYGRYQEWCLTIPAV FISAPYVRRYVRFHEHQEGGGV RQEATVREIPLAIAVIPNSRTPC
10765	41133	A	10827	1	525	DAMVSSWNRAAPNTIPTAAKA GGNYLSSLLVGSEARRHGYQE GIALDVNGYISEGAGENLFEVK DGVLFPT/PGFTSSALPGITRDAI IKL\AKE\LGIEVREQVLSR/EKS LYLADEVFMSGTAGEITPR\RS GNGYSLAKGRGCPVTKRIQH ALQGVYSWVTPGYFESVRCTA
10766	41134	A	10828	8	573	REPAGENGPPVCDGAMLDLKA/ WGSECHQQLTGRDNQQIKRSIY LLPERAKLAELRLLVIPQVDY LQHIEELAAFIKGLGDVPVRLN AFHAHVYGEAQSWASATPED VEPLADALKVRGTCRDPKTRQ ASHQALCANCRRRERLIRPTV RHKPVMIRRDKRRIHYAPTA GCGVNALSGLRFGTDL

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10767	41135	A	10829	1	479	SNATNGIEPPRGYVSIKASKDGI LRQVVPDYEHLHDAYELLGEM PGNDGYLQLVGIMQKFIDQSI ANTNYDPSRFPSPGKVPMQQLL KDLLTAYKFGVKTLYYQNTR/G RR*RRTRRSGAVNPGTMGCESG ACKNPGYLRMPGCRKTPPLIPA LPGFGFW
10768	41136	A	10830	1	443	MDSLMDMLASTQGRRMDDQR VTVSSLPGFQPVGSKAYKPSRR PDKAFTPHPASQYQILHAPLVA AIVSGLTAARVVFVRLQQPSLG VLSNTSGCDATNVVGRQLDNA SVSPGIVHTDSVIWRSCQVRRS AVHTLWRQKTRLFDAVDA
10769	41137	A	10831	1	323	MDLVTGSRKVIIAMEHCAKDG SAKILRRCTMPLTAQHAGHML VTELAVVRSFDGKMWLTEIAD GPTSQAQPAATYRIPLSNSRVR RRYRHRYYRYNLSIRKKRHRPL
10770	41138	A	10832	526	975	TPYPAYVQHVTGRIIRRGKRI RQCLPVLESRFHNTQKSRGETE GASGFSLQHHLGDSSRAAPGPY RVSTAAADSGGRAGSSAPSALV PRGC*GPSLAPAGRSQR*HRGG GQLSPAAPRTANKAAGLGPPA RLNFFIRAQCDSRINDITR
10771	41139	A	10833	1906	2049	PLSIIEADFRIWANAG*RMVAGI KPSIARVPLVLQVSALEVPEQC YRH
10772	41140	A	10834	1	808	MPKPNTRWSAWGLRRLKRKW SVARGSNLNRSVQYEFTGRGD RIGWVKGIDDNWHLTLFIENGR ILDYPARPLKTGLLEIAKIHKGD FRITANQNLIAGVPESEKAKIE KIAKESGLMNAVSPQRENSMA CVSFPTCLAMAEAEFLPSFID NIDNLMAKHGVSDHEIVMRVT GCPNGCGRAMLAEVGLVGKAP GRYNLHLGGNRIGTRIPQITRRI EHRANDARTHRKVAEAFTRFA LFRPAPYQFIKRRQDFRLVMFSI YMPVPS

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10773	41141	A	10835	248	830	HHYRKMNIQQSKWLIVTVCDG KLNWLLSGSKVCCTWMLCVQ/ SEPELAKAWIFANLLAAFLIDDI IQPSLDFPPRRAEITIAADGTISA LNPGDPANTVAPVGRKLKLVKA TGSEVQRGDDGIFRLSAETQAT RGPVLQADPTLRVMSGVLEGS NVNAVAAMSDMIASARRFEMQ MKVISSVDDNAGRANQLLSMS
10774	41142	B	10836	328	481	
10775	41143	A	10837	14	675	FRKLQVCWLPRPHLRPWWTCK PRWFGSCLRVFL/LERVI/GDV/ WGLRLWSALGVAFFG/WAFITS LQAKRGWMRIVPIILLAAALVS VRPLQDWAFGATHTAQTQTHL NFTQIQTVDELNQALVEAQGKP VMLDLYADWCVACKEFEKYTF SDPQVQKALADTVLLQANVTA NDAQDVALLKHLNVLGLPTILF FDGQQQEHPQARVTGFMDAET FSAHLRDRQP
10776	41144	A	10838	1	1413	GMALTYTALGLVVAAAGLQFQ AALQHPYVLIGLAIVFTLLAMS MFGLFTLQLPSSLQTRLTLMSN RQQGGSPG/GAILLYIAQSGNM WLGGGTLYLYALGMGLPLMLI TVFGNRLLPKSGPWMEQVKTA FGFVILALPVNIAPGSLDKALNQ YAAHSGFTLSVDASLTRGKQSN GLHGDYDVESGLQQLDGSGL QVKPLGNNSWTLEPAPAPKED ALTVVGDWLGDARENDVFEH AGARDVIRREDFAKTGATTMR EVLNRIPGVSAPENNGTGSDDL AMNFGIRGLNPRLASRSTVLM GIPRPLRPLRSAAFTGSRFARQ HGCHCTWYAVVVRCVTDTS VGGVNVFVTRAIQDFGIEAGIL MSDLKHGSLVGACLGRLGPGA VLYLAVAVLGVRRRGVVLVC PLGGTGLGYSCQGGAFQFAAS CFLGRYGVVQGVIVHVCFGPRSV FLDDCLRFDLPCLVWLSCPR

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10777	41145	A	10839	1	908	LLKPFHVIAIATGRSLAVFCMG RLRTICSHATPPASAI/LLYI/AQS GTWGGGGTLYLYALGMGLPL MLITVFGTRLLPKSGPWMEQV KTAFGYVILALPVFLLERVIGD VWGLRLWSALGVAFFGWAFIT SLQAKRGWMRIVQIILLAAALV SVRPLQDWAFGATHGTQTQTH LNFTQIKTVDELNQALVEAKGK PVMLDLYADWCVACKEFEKYT FSDPQVQKALADTVLLQANVT ANDAQDVPTSAPFISPPNALVAI IVQLRFGDFYNRVSKGSRPTVF GRTLKARRITLSEKSILKAKIH
10778	41146	A	10840	3	808	SSGGHGRRAAGRLQHPLLRVH VPVVDTSVPCSRQLQWHHLPL CPGQLQHGHFHGPWCFFPSG*G *GQGGRLPGSAVQERGCARYP GPHEVVCHVPLPPAALLPLQR L*QLCRGL*PPLPLGQ/PTASGV ETIATSSCSCCHSVHTWWASWP SAWSTC*TTLRGWEPRTPPSRIL GSCGPHCRGDVDRGHVHPGE* AFQSLVPCQGT PKGPMAPP*VG RGVSP/PGTRVEAALSCESP PHA RQSMCFNLHTHSIDPKQSRRPY SDNVGKE
10779	41147	A	10841	2	646	CSWQPAVPTQPQAGPSAPRQG LPGHSRGAQPALVSPHKGLTPV PGTPA/PASTPPAPAGGGLPSP AAGAPPAHCPG/HPPAPATAAP VPGLCGPCPSLPACPQTR/PPTH VNTKKRV/PG/VRPAARRPWPP GCTWRGARTVTFLHQLNPGVN CQMLTVGRSGIRPTCTIASCSV NKLHPQMHPATQPHHRMALSP SHSEGPSHCWGLSLGDIPR
10780	41148	A	10842	3	550	

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10781	41149	A	10843	2	1132	LCLVMILYTRRRWCKRRRVPQ PQKSASAEAA NEIHYIPSVLIGG HGRESLRNARVQGHNSSGTLSI RETPILDGYEYDITDLRHHLQR ECMNGGEDFASQVTRTLDLSLQ GCNEKSGMDLTPGGDGRKARL MNKYKDNIIATSPVDSNHQQAT LLSHTSSSQKRINN KARGMHV *H*GEGDSGTEAENDPQLTFYT DPSRSRRRSRGRNDRGGRNKTT LTLISITSCVIGLVCSSHVNCPLV VKITLHVPEHLIADGEPVLLRM GSQLDASDWLNPAQVVLFSQQ NSSGPWAMDLCARLLDPCEH QCDPETGRREHRAAGNCQRDH ARAHSVWLGSPPYHDTSLRWS PMYTTMESAPHAFFPSVTADAE
10782	41150	A	10844	3	3935	HASGPGCLKMALAGLCALLACC WGPAAVLATAAGDVDPskele CKLKSITVSALPFLRENDLSIMH SPSASEPKLLFSVRNDFPGEMV VVDDLENTelpyFVLEISGNTE DIPLVRWRQQWLENGTLLFHIH HQDGAPSLPGQDPTEEPQHESA EEELRILHISVMGGMIALLLSIL CLVMILYTRRRWCKRRRVPQP QKSASAEAA NEIHYIPSVLIGGH GRESLRNARVQGHNSSGTLSIR ETPILDGYEYDIT
10783	41151	A	10845	184	357	ALQGWSKNLHPEDIQLGKTPP P*QVAQEGGWSRRVGSdtWIL EEQPGSTTRRVSVGM
10784	41152	A	10846	226	609	VILSSFDLIKHGILLEISDSIQFRG CKRSRIPELGGLEELW*PGDCR QPRP\WRA\GRHLQPGSLGSLVS KHQLRGSRKTL/YSAFRKCHLL SVWEGKPLKI*RGDQVADSSQK KQLAADAHTPYRGGDI

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10785	41153	A	10847	20	1317	SSHQKQMLAPCFLGSLQNWQH HTAGK GK/WVLGTCAFGEQLA ASGHMKETRADRSKKLFRHYT VGSYDSFDTSRGGVRKPYAGF FPDLQDICDEQPRPLHSTLRPAC GGIQPGKQQPMPFAKTDTCASD KHVEKKLERLIHQAVSDAPEPS RVVKGIFIGGLPCARLWVVPYL MGHVQEVTMAEGYERASQATF REQMQEVPCCCLRSTGSSMKT GNKIRRVTDNVLRSGPLINDIL SVAVDSSVSVLIMHFLSSHPL GIVRYWGC MGISCKLLLLTRVC YLITPLDLERFPFPNTEQVTFPE RRVSVFLLPLSWCLDTRLPREP GCRSRRDSFTHR VFYSVTPTSG DVPGSHPFCDKPVRRGDDPYIR NDRGTLYSTLQFISTCVQVVG YGHLP GFKSDAAQAVPRLLSQ KRDQNHKEEEITDGDERP K
10786	41154	A	10848	1930	5781	RAKSPANIIMTGSNSHITILT VNGLNSPIKRHRLASWIKSQDP SVCCI QETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
10787	41155	A	10849	1	3654	
10788	41156	A	10850	1	5127	
10789	41157	A	10851	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFF EKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQITIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESVNR PITGSEIEAITNSLPTK KSPGPDGFTA EFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGNFRPISLMNI DAKIL
10790	41158	A	10852	1	3663	

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10791	41159	A	10853	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
10792	41160	A	10854	1	3354	
10793	41161	A	10855	1	5073	
10794	41162	A	10856	1	3235	
10795	41163	B	10857	1	3300	
10796	41164	A	10858	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEEVESLNRPIITGAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLKLFQSIEKEEI LPNSFYEAHILIPKGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFPPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDA EKAFDKIQQPFMLKTL NKLIGDGT YFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSLAIEMQI KTTMRYHLTPVRMAIHKSGNN
10797	41165	B	10859	1	3420	
10798	41166	B	10860	1	4019	

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10799	41167	A	10861	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQE QTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLQFSIEKE GILPNSFYEASILIPKGRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFI QGM QGWFNIRKSINVIQHINRAKDK NHMISIDA EKA FDKIQQPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWK NIP CSWVGRINIVKMAILPK NILITL QLLVLPELSTLIPLWLPALAGQ
10800	41168	A	10862	1	4449	
10801	41169	A	10863	824	3693	AWKGTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLL LNDYWVHNEMNAEIKMFFETNE NKDTTYQNLWDAFKAVCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQE QTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
10802	41170	A	10864	1	3297	
10803	41171	A	10865	1	4791	
10804	41172	A	10866	3	3316	
10805	41173	B	10867	1	3415	
10806	41174	B	10868	1	4753	
10807	41175	B	10869	1	3384	
10808	41176	A	10870	1	3345	
10809	41177	B	10871	1	3772	
10810	41178	A	10872	1	3720	
10811	41179	A	10873	1	3894	

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10812	41180	A	10874	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAEELKEIETQ
10813	41181	A	10875	1	3780	
10814	41182	A	10876	1	3852	
10815	41183	A	10877	1	3345	
10816	41184	A	10878	965	4362	TWKGTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYFFSAPHHTYSKI DHIVGSKALLSKCERTTEITNYL SDHSAMKLELRIKNLTQNCSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTNQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTTHSKA SRRQEITKIRAEELKEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREKNQIDT
10817	41185	A	10879	1	3921	
10818	41186	A	10880	1	3988	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTD FKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKNLTQS RSTTWKLNNL
10819	41187	A	10881	2	462	YFTDRLRARLAGTPL/IMFGTIA RSGVRIVSREPLNRRAILIHALSL AVGLGVSQQPLILQFAPEWLKN LLSSGIAAGGITAIVFSLAGHPA LATNAQPMFAFLHQTTFQNL IRVKEAICSDQFNTTMRGLQG NSACTKCNPRCLNELTPTE
10820	41188	B	10882	16	163	

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10821	41189	A	10883	2	1509	RDEVNGCIRLVYDMYSTFGFEK IVVKLSTRPEKRIGSDেমWDRA EADLAVALLEENNIPFEYQLGEG AFYGPKEFTLYDCLDRAWQC GTVQLDFSLPSRLSASYVGEDN ERKVPVMIHRAILGSMERFIIGIL SEEFAGFFPTWLAPVQVIMNI TDSQSEYVNELTQKLSNAGIRV KADLRNEKIGFKNRSGELSHLP PINQSKPRNFPSAALPQVPQPTH LSQRPRASPKPPPPDPERVELSL EEHREMLEGFYEEISKGRKPTLI LRTQLSVRVNAILASLESVKPL YTMALGLLVKYPDSALGQLRIE STVDGSRLYITGNGVLFQHVKF HAFLLYLGYTPQAAREVRIMQF CHTLREFALEYRTCERVLQQQ QKQATYRERNKTRGRMITETE KFSGVAGEAPSNPSVPVAVSSG PGRGDADSHASKSLLTSRPED TTHNRRSRDRHGPRGCQVCSA QPSLLRAVPVADMALMTGKD CPPCPGKRLRGAELGPL
10822	41190	A	10884	296	757	ISRFRRRALSPKAESSLSILPRE KRSPSRTWILTPRRLFLSAISSKS AGNTLSSRIK*KA*ACK*RGR VSTRCRIFLALFIVTIKHLMMR STASNRQYSISIWILPCWSARC FSIKIAGIPAEPPTYLLISPGILT LKINFFTTVSFW
10823	41191	A	10885	1	519	MGLPWQVGMGAIFWGAIGLLL LTIFRVRYWMIANIPVSLRVGIT SGIGLFIGMMGLKNAGVIVANP ETLVSIGNLTSHSVLLGILGFFII AILASRNIHAAVLVSIIVTTLLG WMLGDVHYNGIVSAPPSVMTV VGHVDLAGPIGNSLV/GCPYFAI LRRFSDGSGGLGRNQI
10824	41192	B	10886	1	3489	
10825	41193	A	10887	817	1528	WGSRDNRDEIRNTLVLDTLRLQ RVCAQRAFLVFLVGKVTFEEL NFTFILVIQNVRGDTVEEPTVVR DNHRTARELQQGVFQRAQGFD IQVVGWFVEQQHVAANLSRCR LVNTPPTQQVRFSTATFRVIWRV TPTAGKLSGGFLFKMYGLPAA AIAAGTLLNQKTARKWAVL*SP PALTSFLTGITIEPIEFSFMFVAPI LYIIHAILAALFMWKFVPETKR KTL EELEALS NR IAAE
10826	41194	C	10888	1	573	

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10827	41195	A	10889	2321	2554	WRKRCVKVRNLSPLCLPDRKL TLPCCSIAIRNCIAKLPVS*LWV ALWGWVTGRLRLNLIFTLTRK RQKLSSSQGSRW
10828	41196	A	10890	1	4350	
10829	41197	A	10891	137	686	KLLELRSKREAGMLERSSSRMV TCSQWAATRNPVVALPIYGFIE RCLVPFGLLHIWNVPFQMIGIE YTNAAGQVFHGDIPRYMAGDP TAGKLSGGFLFKMYGLPASAIA IWHFVKPETRAKVGGMIFAAL TSFLTGITIEPIEFSFMFVAPILYII HAILAG\WHSQSVFFWGCVTVR RSRTV
10830	41198	A	10892	3	3831	SIGMMGLKNAGVIVANPETLVS IGNLTSHSVLLGILGFFIAIL/AS RNIHAAVLVSIVVTLLGWML GDVHYNGIVF\APPSVMTVVGH VDLAGSFNLGLAGVIFSFMLVN LFDSSGTLIGVTDKAG\LADEK GKFPRMKQALYVDSISSVTGSFI GTFSVTAYIESSSGVSVGGRTG LTAVVVGLLFLLVIFLSPLAGM VPGYAAAGALIYVGVLMTSSL ARVNWQDLTESVPAFITAVMM PFSFSITEGIAL
10831	41199	A	10893	6	146	
10832	41200	C	10894	1	1197	
10833	41201	A	10895	1	763	MCSEKVAMCCDDDDDDDDDDDD DDDDDDDDDDYSCSHGFWDFS TWNTSIPQGHLMGSPKGLVE IRDKLGDRTQRVYIQRITGNGL EFENPCKQFRGLTRMYIRRLTR LSVQWYMVALERPVLQKYRY RGSKAHETSHSMSTVTSSNEKQ DNTRIDTQGATNR/VATLRHRE TVLANEVAPYAATDNVLAAS DVGDVSWKLPVAQCFSPCFV GTPLHTWQ/SGLLQECQEHQQ VTDTQPYHCPKPNVTPSPLK
10834	41202	A	10896	2	412	LFEFTLDVKVRESPIL\FRDESM RTACSPDGLCSNGFGLELKCPF TSRDFMKFRLGGFEAIKSA YMAQVQYSMWVTGKDAWFFANYD PRMKREGIHHVVVERDPQYMS DFNEMVPEFIEKMDEALAEIGL TVRELGI

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10835	41203	A	10897	3	663	ARGKKPPRRGKEDFWDLSIATR VSVNPIKFPVEA*PFLKPLQQV S\GPLGGRLPLPIPGNLLLQVAD GTLSLTGTDLEMEMVARVALV QPHEPGATTVPARKFFDICRGL PEGAEIAVQLEGERMLVRSGRS RFSLSLTPAADFPNLDDWQSEV EFTLPQATMKRLIEATQFSMAH QDVRYYLNGMLFETEGEELRT VATDGHRLAVCSMPIGQSLPSH
10836	41204	A	10898	377	1077	WRGQRCLASVFPRHPGAEGRG RPVFRAETIFL**SRRGLAR/TGR RKLPVKLKAADFPNLDDWQSE VEFTLPQATMKRLIEATQFSMA HQDVRYYLNGMLFETEGEELR TVATDGHRLAVCSMPIGQSLPS HSVIVPRKGVIELMRMLDGGD NPLRVQIGSNNIRAHVGDFITS KLVDGRFPDYRRVLPKNPDKH LEAGCDLLKQAFARAAILSNEK FRGVRLYVSESQLKSQR
10837	41205	A	10899	591	871	VRGFPSGAEQLYG*SVSLILLP NLSNSG/RTGFPVAPLPYSKSPS DFMSLLISTVPGSQL*QPIQRAE LVCTTCSPIVSAPTQGAQTQGA SH
10838	41206	B	10900	1	1765	
10839	41207	A	10901	1	1177	MKSLIIVNPADCIGCRTCEVAC VVAHPSEQELNADVFLPRLKV QRLDSIKRFWEQMMRIVTA MASTLAVSSLSHAAEVGSGDN WHPGEELTQRSTQSHMFDGISL TEHQRRQMRDLMQARHEQPP VNVSELETMHFPGMLFETEGEE LRTVATDGHRLAVCSMPIGQSL PSHSVIVPRKGVIELMRMLDGG DNPLRVQIGSNNIRAHVGDFIT SKLVDGRFPDYRRVLPKNPDK HLEAGCDLLKQAFARAAILSN EKFRGVRLYVSENQLKITANNP DQEEAEEILDVPYSGAEMEIGF NVSVMVDVLNALKCENVRMM LTDSVSSVQIEDAASQS\AAYV GMPMRLEGSPPLGNPEFQKISSP CALYIALCSKARHHTGRYLGLC
10840	41208	A	10902	527	925	

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10841	41209	A	10903	1	1514	MAFGLFWLIWILMSTITRGIDG MSLALFTEMTPPPNTTEGGGLAN ALAGSGLLILWATVFGTPLGIM AGIYLA EYGRKSWLA EVIRFIN DILLSAPSIVVGLFVYTIVVAQM EHFSGWAGVIALALLQVPVIRT TENMLKLVPYSLREAAYALGT PKWKMISAITLKS AVVGNMTRI LVRMAPIVVKTAPLLFTALS NQ FWSTDMMQPIANLPVTIFKFAM SPFAEWQQLAWAGVRNLNFY Y GKFHALKNINLDIAKNQVCVC YNQCTESLVNGLYANAAHLVS VGQRSTGNSSVIKARQGSSIRP MIVKYSALCLCRMRSERFIRRT KHKRFDRLQCTCRPDKRSASG NLA FVISLRPVPLVAVVFALFA AFPMFSDVSIQLRHFIFANFLPA TGDVIQRYIEQFVANSNKMTAV GACGLIVTALLMYSIDSALNTI WRSKRARPKIYSFAVYWMILTL GPLLAGASLAISSYLLSKQWAI DIDSVNRLGAILTALITGDT
10842	41210	A	10904	900	1250	WYACDQCQTCLPDHAPECAVA *AKTCCTAIETGTYRQSGRERK QSAMVL*RVRVLL**RRETACH VRAGLL*S*GTALGGHYRRLQQ *NSTGRHAGSGGTPLRQRSSVV SSGVADG
10843	41211	A	10905	626	850	LRFCLVFNILSRYSLISTVQKFSP AMLNGTLPLENILH*LRNITAIM NLVIFHGLSA*SVCYIPGRGSV MSDRV
10844	41212	A	10906	307	858	
10845	41213	A	10907	698	1115	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHSGTRGRRAR FSVRATYAAGRLATIPGYRGGP LGLMCGQPNRKPTDGANERLT MIRAATAMSE
10846	41214	B	10908	1	721	
10847	41215	A	10909	1	2615	
10848	41216	B	10910	1	1164	
10849	41217	B	10911	1	1930	
10850	41218	A	10912	689	1033	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHDGPEHSVFM PSR*APMTR*KIYSSPPYRSSQR AHRHA

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10851	41219	A	10913	393	686	NPSQLWEAAPPQWKWIQGAGK VSCQLSRAADQLGRQHHSIDPC FSIVPLIL*FAAYFPINPAVLKLA PVALYADAIRYNARTPLQGSLL PLTRLVWA
10852	41220	A	10914	1313	2370	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRTVE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHRANPDANVV SEDLRESVGKSVNLIHGVRD MAAIRQLKATHTDSVSSEQVD NVRMMLAMVDDFCVVIKLA ERIAHLREVKDAPEDERVLAKE ECTNIYAPLANRLGIGQLKWEL EDYCFRYLHPTEYKRIAKLLHE RRLDREHYIEEFVGHLEAEMK AEGVKAENVYGRPKHIYSIWRK MQKKNLAFDELFDVRAVRIVA ERLQDCYAALGIVHTHYRHLP DEFDDYVANPKPNGYQSIHTV VLGPGGKTVEIQIRTKQMHEDA ELGVAHWEI
10853	41221	B	10915	1	1556	
10854	41222	A	10916	1566	1947	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRTVE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPH/ECAGLSLAT GISAAAGL*WARRSFIQRDSRD PRYRAPIRIHPLPGANHLRQ
10855	41223	B	10917	1	1571	
10856	41224	A	10918	2024	2589	QDMQNLLVLRETSVKPEYPGL KVPEAFR/RIQGRKGEPGEGAY VYRSAFSVFQKPRFSCALGGAI AASWAGGGAPSPCGRRAELPW GPGPVGVAQTVCPERPRRERRL RGEEEEAADKMARRWRKSR RRKRKEMEERMSPEETEGTNF DFAGEAVGQAERKGPAFSAAE ESFHEEEKRRRKEQSDLTF
10857	41225	B	10919	690	2724	
10858	41226	A	10920	3892	4338	

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10859	41227	A	10921	2573	3473	ANGARLALPPLGTFQGRQLRRR RPRWRRRRPGEASGPVMRLRG PRPGASAPWDGGSQVAR*WC PFPSQGWGGSQGGQGDGAR FRTHRAKVQQDGDGR*DEADG VHRHAPLQGRLLVLVQVGVADE REDDAGNEGLQHLQQPGYGGH IASDLAGPGPGPHFGGVSHTR DAGEEGGGDGVVPRTAVGQEL DIGGGVDDGGREAEEGRIAGEG DGEVAPRQGEAGLEPAQLHDE DDQGHGEAEAPGEHGPVAHG RPGAHASHQREGHAGRHQLQQ AKETQGLCQGPGRPHDHGGPQ
10860	41228	A	10922	819	1274	NPLPRLQLRRQLHLPSVRNCCQ TRRCGR*HRQLRQ*ARRKLVR SVYFGSCLRQLLREEWK*Y*RV *VLGWYSAVSTSSLPFDYCF NSDGYRRVVDPGSLSGHPFLYQ RYGWQHDDVHQPDLGLGPPGS LHPDPACFRCVLRNCGNLLA
10861	41229	A	10923	720	3546	RDGRKPLQPDAAARNCGGSQS RSGSRKRRGDRI/TLMSLKTRK ANRWA*SFRKMAAISTP/RTDI ACAKYRYETLHADRVLYYIDS RQHQLMQAWAIVRKAGYVP ESVPLEHHMFGMMLGKDGP KTRAGGTVKLADLLDEALERA RRLVAERTRYSAKSWKTVFRL VIGQMIDVLGPEKRRRTTQE KIAIVQQSFEPGMTVSLVARQH GVAASQLFLWRKQYQEGSLTA VAAGEQVVPASELAAAMKQ
10862	41230	A	10924	764	1227	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHNPTLEWFLS HCHIHKYPSTLIHQGEKAET LYYIGKGSVAVLKDEEGKEMI LSYLNQGDITIGDLGLFEEGQER SAW
10863	41231	A	10925	2467	2653	WLPFGLSHHNSPHPTSWGANG GFCQLLSMSVLIMHSGTLGAH WDFSPVIGLEANRGVGDGS

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10864	41232	A	10926	1	860	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLEQHQQLARQLFKTINRWLAL GVMMTQGTLFDAITIEAPSSTK NKEQQRDPPEMHQTKKGNQWH FGMKAHIGVDAKSGLTHSLVT TAANEHDLNQLGNLLHGEKQF VSAMPATKEPQREELAEVDVD LLIAERPGKVKTLK/TESAQ/GT KRPSTSNT*KPASVPGWSTRFA SSSGSSAS
10865	41233	B	10927	754	910	
10866	41234	A	10928	2395	3454	
10867	41235	A	10929	1	1377	MSCMTPASDGTFSIDDEEAKQ FRESVVEWLMTNHPHDCPVCE EGGNCHLQDMTVMTGHSFRRY RFTKRTHRNQDLGPFISHEMNR CIACYRCVRYKYDYADGTDLG VYGAHDNVYFGRPEDGTLESE FSGNLVEICPTGVFTDKTHSER YNRKWDMQFAPSICQCSIGCN ISPGERYGELRRIENRYNGTVN HYFLCDRGRFGYGYVNLKDRP RQPVQRRGDDFITLNAEQAMQ GAADILRQSKKVIGIGSPRASVE SNFALRELVGEEFYTGIAHGE QERLQLALKVLREGGIYTPALR EIESYDAVLVLGEDVTQTGARV ALAVRQAVKGKAREMAAAQK VADWQIAAILNIGQHPLFVT/N VDDTRLDDIAAWTYRAPVEDQ ARLGFAIAHALDNSAPAVDGIE PELQSKIDVIVQALAVFRLVIGE QMIDVLGPEKRRRRTTQEKIAN
10868	41236	A	10930	19	586	IAALLKDKHPAMLLLAATKRG KALAARLSVQLNAALVNDA VDIVDGHICAHRMYGGFAQE KINSPLAIIITLAPGVQEPCTSDTS HQCPTETVPYV/APRHEILCRER RAKAASSVDLSKAKRVVGVG RGLAAQDDLKMHVHLLAAVLN AEVGCSRPIAEGENWMERHAQ HKSWNPLSWAPLGSQAHP

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10869	41237	A	10931	1	1364	MLRILCLALCSLLTGTRADPGA LLRLGMDIMNREVQSAMDESH ILEKMAAEAGKKQPGMKPIKGI TNLKVKDVQLPVITLNFVPGVG IFQCVSTGMTVTGKSFMGGNM EIIVALNITATNRLLRDEETGLP VFKSEGCEVILVNVKTNLPSNM LPKMVNKFLDSTLHKVLPGLM CPAIDAVLVYVNRKWTNLSDP MPVGQMGTVKYVLMSAPATT ASYIQLDFSPVVQQQKGKTIKL ADAGEALTFFP/RGVMPKA/PPQL LVPATFLSAELALLQKSFHVNI QDTMIGELPPQTTKTLARFIPEV AVAYPKSKPLTTQIKIKKPPKV AMKTGKSLLHLHSTLEMFAAR WRRKAPMSLFLLEEHLNKGQ HSLHENQLQMATSLDRLLSLSR KSSSIGNFNERELTGFIITYLEE AYIPVVNDVLQVGLPLPDFLAM NYNLAELDIVELG GIMEPADI
10870	41238	A	10932	111	415	VSALSLLLHRAPRCRRPSLPPLQ DAGLHGWEHGVQRGRGPAAH RDPV*EGWHHSGHLAQGHSEG *PCGDSETPAGREGKTAGHRTG RCGCRQEQTGAQQD
10871	41239	A	10933	2	219	FLGGEGVIFPRGWWGAAMRFV STGSRHTTP*GSEKSAGPHTQW HQNSK*ATSETRLHSCASEGIVP AGCRPY

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10872	41240	A	10934	1	2358	VPMVVVPPVGAKGNTPATGTT QGKKAEGTQNQSKKAEGAPNQ GRKAEGTPNQGGKTEGTPNQG KKAEGTPNQGGKA\EGTPNQG KKAEGAHNQGGKVDTPNQG KKVEGAPTQGRKAEGAQNQA KKVEGAQNQGGKAEGAQNQG KKAEGAQNQGGKAEGAQNQG KKAEGGQNQGGKTEEAQKQG KKAEGAQIQGKKNEGAQTQGG KAEGAQNQGGKNEGAQTQGG KAEGAQTQGGKADGAQNQGG KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKADGAQNQGG KAEGAQNQGGKAEGAQNQGT KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KVEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KGEGAQNQGGKTEGAQGGKA ERSPNQGGK\GEGAPIQGGKAD SVANQGTKVEGITNQGGKAEG SPSEGKKAEGSPNQGGKADAA ANQGGKTESAFVQGGKNTDVAQ SPEAPKQEAPAKKSGSKKKGE PGPPDADGPLYLPYKTLVSTVG SMVFNEGEAQRLIEILSEKAGII QDTWHKATQKGDPVAILKRQL
10873	41241	A	10935	967	1574	SLKCLISLSPVHSYPGKRPEVSF SPINSQQPPNYEMLKEEHEVAV LGVAYNPAPTSTVIHINETSV PDHV/VLVPVQHSLHEP\CCLGF IAFAYSVKSRHRKMVGDLTGA Q/ALCLHRQVPEHLGPDFGHPH DHSAAHHPSVDLPSLPSSFLLLF LFLFLPALQLLFLSFLVFFFFFS FFPLFQRLELWGWGEWDHST
10874	41242	A	10936	3	370	RVATIVDIWEKSISGKKNSQL FVNPCLGFIAFAYSVKSRDRK MVGDLTGAQA/LCLHRQVPEH LSPDCGHPHDHSAHHHPGVDL PSLSIDQEASSRPGARALQDGA WASVFPSVQWEQQGW

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10875	41243	A	10937	76	614	PDRRWSSLDTMNHTGQTFSPV NSGQPPNYEMLKEEHEVAVLG APHNPAPPTSTVIHIRSTSVPD HV/VLVPVQHPLHEPCCLGFIA FAYSVKSRDRKMVGDTVGAQ/ ALCLHRQVPEHLGPDSGHPPH HSAHRHPSADLPGLWIDQEASL RPGALPMTICIPRTPTSIPRPAPR GQELCP
10876	41244	B	10938	695	1011	
10877	41245	A	10939	410	5501	EAKTHKSVVMTDPLLDSPASS TGEMDGLCEPLLIPPLSNRGI LGPVQSPCPSRDPAPIPTPGCL LVEATATEEGPGNMEIIVETVA GTLTPGAPGETPAPKLPPGEREP SQEAGTPLPGQETAEEENVEKE EKSDTQKDSQKAVDKGQGAQR LEGDVVSGTESLFKTHMCPECK RCFKKRTHLVEHLHLHFPDPSL QCPNCQKFFTSKSLKTHLLRE LGEKAHHCPLCHYSAVERNAL NRHMASMHEDIS
10878	41246	A	10940	446	1704	GGPDMDARAPAVGGSCHQHGP SGAPGP/CIGRMES/EVGVRDHA IPEGARCNFRKETTEGPLHCSR CGLLCPSASLRGHTRKQHPRL ECGACQEAFFPSRLALDEHRRQQ HFSHRCQLCDFAAERVGLVK HYLEQHEETSAAVAASDGDGD AGQPPLHCPFCDFTCRHQLVLD HHVKGHGGTRLYKCTDCAYST KNRQKITWHSRIHTGEKPYHCH LCPYACADPSRLKYHMRJHKEE RKYLCEPCGYKCKWVNQLKY HMTKHTGLKPYQCPECEYCTN PADALRVHQETRHREARAFMC EQCGKAFKTRFLLRTHLRKHSE AKPYVCNVCHRAFRWAAGLR HHALTHTDRHPFFCRLCNYKA KQKFQVVKHVRRHHPDQADPN QGVGKDPTTPTVHLHDVQLED PSPPAPAAPHTGPEG

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10879	41247	A	10941	1	944	MSILLTSIARQSRDKRTRLGHK QRILAGLGSNHPIRRNLQGLRR FALVDRQLVVQNVVTRWCRM VYQSAANVFIQHRPISHDERVQ QRGTAITMMVQQAQWAERGK SGLSGVAIGPAVDTSALQAQLR ETLPPHMVPVLLQLPQLPLSA NGKLDRAKALPLPELKAQAPGR APKAGSETIIAAAFSSLLGCDVQ DADADFFALGGHSLAMKLAA QLSRQVARQVTPGQVMVASTV AKLATIIDAEEDSTRRM/WIRNH SAVA*R*WPDAVLFPSVRFCL AVQRALALSIRSTMVDYRHSVT APQWPHADGGKPG
10880	41248	A	10942	1	939	MRTILTIDIQLRYPRRPGAFGTH TFLKCAFSNKQRRFTVKRFAFL AARYPASQEMPPVRHGHAVAA AIPCGNVPANGNTPARYKGC GLCSSTLQDALRDFIQVAHTCEI PLMPACFGLADDKLWRWLNE KLPCSLMLLPTLPPSVLGIRLQN QLQRKIVLFGGVWMPGDEVKK VTCKNGVVNEIWTRNHADIPLR PRFAVLASGSFFSGGLVAERN IREPILGLDVLQTATRGEWYKG DFFAPQPWQQFGVTTDETLRPS QAGQTIENTLFAIC\SMLGGFDPI AQGCGGGVCAVSALHAAQQA QRAGGQQ
10881	41249	A	10943	25	479	
10882	41250	A	10944	2	453	APSRTSGSSVGLQGSYVLDVDG REFGCERVKG*FLVHRAGHL/L TLWLFSSQINKMEWWSRLVSS DPEINTKKINPENSKVSPGWL ELQQEGEGPRCFQSFTDSCHCL PS\LSDLDSETRSMVEKMMYDQ RQKSMGLPTSDEQKKQEILKK

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10883	41251	A	10945	3	1110	RDPQERRERGTRVQSSGTWIGA GAMGGEQEEERFDGMLLAMA HQHEGGVQELVNTFFSFLRRKT DFFIGGEEGMAEKLITQTFSHH NQLAQKTRREKIRQEAERREK AERAARLAKEAKSETSGPQIKE LTDEKAEKLQLEIDQKKDAENP EAQLKNGSLDSPGKQDTEEDEE EDEKDKGKLKPNLGNADLAQ *RLNPDPCRELDLAVPF\CVNFR LK GKDMVVDIQ/RRQHLGVGL KGQPAIIDGELYNEVKVEES\SW LIEDG\KVVTVHLEKINKMEW WSRLVS\SDPEINTKK\INPENSK LSDLDETR\SMVEKMM\YDQ\ RQKSMGLPTSDEQKK\QEILK\K FM\DQHPEMGFFPKAKFPTNPC
10884	41252	A	10946	50	426	
10885	41253	A	10947	1	942	QVWKQNCFKHYSNETDNSTTQ LVGLQTLQVVVPSLILCEHCMN FSSPHVWCCLVQAVPGGQGQTI MQVPVSGTQGLQQVSNI*KY*A VYQRRGFKE*IITTYQTQQIIQQ PQTAVTAGQTQVIPLALSHRSK TDLEESDN*VRYFPVNADGTIL QQGKCTHKLP*DFLGQLFCPLD N*HLSSSGQGTVTVTLPVAGNV VNSGGMVMVRKCIFQLCL*NF LEHAT*CLLKFEPLYVNAKQYH RILKRRQARAKLEAEGKIPKER RVCITLGRI*ERRIAGFYF*NYLL YPKEKDSPHMQVGRHIHFILLFI TLY
10886	41254	A	10948	24	378	
10887	41255	A	10949	15	658	QRPNAAQTPSRGCQLSAPARA GRFHPQSCRPSRVGCKGHVCIP GDRSLALWPPRLGCGE*TSSAL DSQGILVSNFPHEGS/PTPQQSG LKTGRILLNHGRRRLKVSQSEG RFLEVGVKQRGPTAHRTHSNR TRRRHALSTGGDTGRARNARS GGGRSPRSSLPAASSTPGVCWS PRMSQARQPPSCRRGVPRRPEM LRSLSPSCQICVCVFRH

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10888	41256	A	10950	1171	1639	PMALWADGRARHKVGTECEC GMHPGLKCSGRTLGSQTMLAT TPCDSPT*I/SNKNGLRSV/SYR* CLINALWLFSISPHILVRCGTESS *LLPSLVPSWLP*LVRVR\PLPT GWC*IPSCCLKP\PTWSSHSPQ RLP*NPATLVCLQNGTARSHSS TPV
10889	41257	A	10951	2	357	HERLLNPGRETDWATCYSETAS CSVA*ATVQ*HDHGSL*PQTPG LKWFSHFSLPSSWDYRHVPPCP ETGPCPVTQDGVQWSYHGSL*P QTPRLKQSYHVSLPSSWDYRW EHPVAGKQA
10890	41258	A	10952	15	578	IQTPPKGRRTKPCRQKRTIVTP RQSTPRSNRGKDTRSKQRDETT E*TTRAQDTNKEGATQDRTETA RRTQSNMEKEKPNQHNKRKRD RDSRKDKGHERETKNTERNRT KRREKRKDNKHNEAKSQRQTR KKKETKETATRKREEPSNSCSM HPFQISWLHSVGDNGRRDQLLC QGFHLYYLMCFPQ
10891	41259	A	10953	2	369	DIDPTGLQSQSPKQGDPPLMF SEDYQKSLLEQYHLGLDQKL KYVVGELIWNFADFMTNQCQP KTPPSVILFLPSCEEPQANKATL VCLMNN\FYPGILMVTWKADG TLITQSVEKTPPSKQS
10892	41260	A	10954	1	417	FGTGPSASPRTSFRHQCGH*PH WTAVTVDSDQGAGQPKTPPSVIL FLPSCEEPQANKATLVCLMNNF IPGILMVTWKADGTLITQSVEK TT/PSKQSNNKYVASSYLSLTPE \SWRSRRSYSCQVMQEGSTVEK SVAPAECS
10893	41261	A	10955	113	767	GPMRPGTGQGGLEAPGEPGN LRQRWPLLLLGLAVVTHGLLR PTAASQSRA LGPAGGSSRSS LRSRWGRFLLQRGSWTGPRCW PRGFQSKHNSVTHVFGSGTQLT VLSQPQ/ALTPSVILFLPSCEEP QANKA\TLVCLMNDFYPGILTV TWKADGTPITH\GVEKTPPSKQ SNNKYVASS/YTSLTPEQWRS RRSYSCQVMQEGSTVEKS\VAP

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10894	41262	A	10956	1	344	GSAAGQVQQQQRRHQGKV TVKYDRKELRKRLVLEEWIVE QLGQLYGCEEEEMPEVEIDIDD LLDADSDEERASKLQEALVDC YKPTEEFIKELLSRIRGMREN*A PPPKKSV
10895	41263	A	10957	3	349	TMNNMRGQILLFLLIWLNWR YGQVLVSSEKHKIASQLELIQS QFHYCVTLDKLLNFSEPVHVK QEQLSVCSEKEVTEVKVLALV NHVGSKCCFLIFCSGPS*PKFSV SQVFSD
10896	41264	A	10958	998	1383	
10897	41265	A	10959	39	402	TDHIMREYKLVVLGSGGVGKS ALTVQFVQGIFVEKYDPTIEDS YRKQVEVDCQQCMLEILD TAG TEQFTAMRDLYMKNQGQFALV YSITGQSTFNDLQDLREQILRG* RTREDVPMILVGN
10898	41266	A	10960	25	739	YKKNFDISLLSVKCTCTHMLT SSSL*C*NLICRSLFLIDFNL*AG FVI*VGFTAQSTFNDLQDLREQI LRVKDTEVDVSIFSLCKMLCHLS VAK*KSACFQNLARQWCNCAF LESSAKSKINVNEVTYNCWAA QTS AFLVCFKL TARLLALSITNV SSCTGWGVQRSHQDQGN SKHA ASSVWKVVGFGIVRLGTGTCLSS LERGYMCKEMFDPYTPSRV LKPRSEALELFGPLKSLT
10899	41267	A	10961	946	1424	YFRFLCVIFCSFLLRCLVSRVLL YPMLIAEIPRVQGRGGPSWPGL GGRLLKELSRLLTFLKVRKLSIL SGWREVPLGQPSLTEPP/PPAPP HPGPGSWLASASAPHLSQPPAA GPAGQPPSPGSPVPGGCSLALP VTSVLCLEPPALKPAAASAPVV AVH
10900	41268	A	10962	1	148	TALQEFGTRSGIPALGCPPDP* PPPGSCPPPEPQLLSVGEPSRCS CSP
10901	41269	A	10963	10	233	LGAARRAQLLESWPRA/PPPAR LHACHLQP/LPRTPKVHTS*PTQ QQGGFSLCLKKKNVPVSVEMIC SSARLKLTE
10902	41270	A	10964	1	331	RPLLLSTLCWELRAALSYWRA GRAPPPARLHAGPASGFVWLT PSGGEEGEPRTHLWGGGGRRG GGRKKKD*GGQGRGAGGFATF SPPANAPRLHTSLTNSSARWIFL CV

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10903	41271	A	10965	4	1023	FPRAGEKPYTCEESGRAFNQS* TLTTHMTIHAG*KPYKCEECGK AFYRFSYLTKHMIHTGETFYK CEECGRGFNWSSTLTKHNRHT GEKPYKCEQCGKALNESSNL AHKIIHTGEKPYKCEECGKAFN RSPKLTAHKVIHSGEKPYKCEE CGKAFSQSSILTTHKRIHTGEKP YKCEECGKAFNRSSNLTKHKII HTGEKSYKCEECGICRTPKMAV FSQCHQVLKITNIHYPSSIATIVH GDRAQSHVDICTLGDKASGAI GTAFTTTQCEQRAYNETAVSR YTISRPPSHHGGDSETTEFSPAI GRCNGVHKSWGSNRCSDRWRS
10904	41272	A	10966	1	290	
10905	41273	A	10967	1	1508	MSWAARPPFLPQRHAAGQCGP VGVRKEMHCGVASRWRRRP WLDPAAAAAA AVAGGEQQT EPEPGEAGRDGMGDSGRGEC SRRAGEPVTALSATPPPPFPVIS SSMGSPGLPPPAPPGFSGPVSSP QVRGCDQLTAWPLSFSCFPCNP VLGVRLHCPPPPGGPGAGKRL CAICGDRSSGMWLRG*TERESL GHVSSPVG*DLTYSCRDNKDCT VDKRQRNRCQYCRYQKCLATG MKREGKDPCCPGVLDHMPFSLI PLRPPEEMPVDRILEAEAVEQ KSDQGVGPGGTGGSGSSVS GVNPLSFVMGVGGGSLGLWAK RIPHFSSPLDDQVILLRAGQ*P WIPLTS*HLTPL*LPDLFLATGL HVHRNSAHSAGVGAIFDRSVA LG*AGM*IEGVGL*AGPCLRAII LFNPGKRRITFVSQGGQNLGAS SSPMETYCKQKYPEQQGR*DG AGGH*GSLGGGECYEDVFLFFF KLIGDTPIDTFLMEMLEAPHQL
10906	41274	A	10968	945	1131	MICTVAISYVLFVDVYISLLSAT CSPKPQGS AVFQHD*VSPGI*NG SERCCSRDRHRQFLW
10907	41275	A	10969	37	332	AEGIRTIQGTENIFCKVVWGRQ VLSQNTNLEGQSNHGCQLR KRTFISTFTAHSRFFLQRF/VFP YTGFECQSTAW*KPRYLLSHS VKGKRNLHPA
10908	41276	A	10970	137	283	
10909	41277	B	10971	1	624	

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10910	41278	A	10972	3	618	KTQDPAKAPNTPDILEIEFKKG VPVKVTNVKDGTTHTQTSLELF MYLNEVA\AQHG\GRIDLGDN R\FIGMKGRGIYYTPTGTILYHA HLHIEAFTMDREVRTIIQGLGLK FAELVYTGF\WHSPECELCRHCI AKSQERVEGKVQVSVLKGQVY ILGRESPLSLYNEELVSMNVQG DYEPTDATGFININSLRLKEYHR LQSKVTAK
10911	41279	B	10973	1	1102	
10912	41280	A	10974	748	1396	LYLQRPFFQIRSSLQVLGHRQIF PQSPRCLHLAPPPLMRHSHRSPT WY*FSPRRTQQSRPVSAQPLGS CGGIQPAPPPVTQPSQLSPPRGS R*LGSDGAGTQPRHVQNPCPLT CVHM*SPPPPCLNLQARCPQSL RAKVVP\AVEQ\RARVGHVESPG SHCWLEREPEV\GSGPQQGQRPL PAGAAD*CLGAF\WQTHLDLGD SLISC\SHDLQGWQLSQA
10913	41281	A	10975	1	846	
10914	41282	A	10976	2	851	WNSAELGRGGPGAGGAGVIGM MRTQCLLGLRTFV\FAAKLWS FFIYLLRRQIRTVIQQTVRYDI LPLSPVSRNRLAQVKKILVLD LDETLIHSHHDG\VL\RPVTPGT PPDFILKVVIDKHPVRFV\HKR PHVDF\LEVVSQWYELVVFTAS MEIYG\SAVAD\KLDNSRSILKR RYYRQHCTLELG\SYIKD\LSLV VHSDLS\GIVIL\DNSPGA\YRSH PGYGG\DNAIPKSWVSVTPS\ DTALLNLLPMLDALRFTADVRS VLSRNLHQHRLWVTACFPLPP
10915	41283	A	10977	25	153	
10916	41284	A	10978	1	741	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGGPGTPR KGLGE/PAVVPMSPAVGT/PALT QCHGPHAEDDLEPILTTDPVA RDCPLDLLMDGKTGAIISSLLHS NCLPAPFCQC\SHAVKWQLKTV HSCCPLGEVQPQRRCVIATAKE KGIGVKHHCNIHSDNVNSIITAT VAAHQQQQLPQNGNNSGIKNN QNSSENTVTNNSKNISNHIICRN SSKNSKSSSSSSNNNNKSSNTI NSNNKAR

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10917	41285	A	10979	1	669	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGGPGTPR KGLGE/PAVVPMSPAVGT/PALT QCHGPHDEDDLEEPILTTDPVA RDLTMPTAASQHLQKQCLEHH HYFHSYNINSDITVSRNNISSIIT TPVHHHCNIHSDNVNSIITATVAA HQQQQLPQNGNNSGIKNNQNS SENTVTNNSKNISNHIICRNSSK NSKSSSSSSNNNKNSSNTINSN NKAR
10918	41286	A	10980	3	980	IESPGPFPPGLQRPVPHRGEFCL RCTSSEALPCFYSWTVTFSPWT VAAAQGGPRPGPASRTLLLATQ SEIAAAELGPGSWGPGSSCPSE QSSHGPPASS*AAPLQTGRRLRS RAS*RSGAPSVAAALPAPLSRPQE RHPSVSASRSGHPPGPCSPPPP AARPVQPSPCRAPPGSAAGRAR APHA*AAPGSWLSSAGAAARR WPFQTAKGSGS*DRPGRPGPDA PAAPPGWHRAPPSGSSSGAGTG RHPQPFGRPRRTPAPYAAPCA FVATLVFS*LLIFGGAFSFPALS HCPTSA*LKRLLSEPAPIAFPFG LHPGTLLSRASE
10919	41287	A	10981	1	5229	
10920	41288	A	10982	1	7044	
10921	41289	A	10983	1	3228	
10922	41290	A	10984	10	209	TLSGGEPQRLEAERRARLQDEE RRRQQQLE*MRKREAEDRARQ EEERRRQEEERTKRDAEEKVM
10923	41291	A	10985	293	363	
10924	41292	A	10986	3	434	
10925	41293	A	10987	3	1536	
10926	41294	A	10988	315	993	VPVAPIFHFSHFSPAPTFTQSR QDSMQCILRQHCHLILISRSSSL VPAGLRGAMAFALAIRDTASY ARQMMFTTTLLICPELLALLLS LSHSRSLLLHGYHGPGS*YALFFS LSFSLVTWVGAKPGRYQSLIFV VVVGCTFQNGEPLREEDSDFIL TEGDLTLTYGDSTVTANGSSSS HTASTSLEGSRRTKSSSEEVLER DLGMDQKVSSRGTRLVFPLE
10927	41295	A	10989	3	320	

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10928	41296	A	10990	3	582	GPPTPRRPRPLPSSLPSRRSRDPP RIPLCA*FPQTRKQIARSEPD*T WASQSSTSIPRIWRVFVHA*KFST APLTATPPPGKMCASAGCRETVK TT*PPLRGGPAPFLLPSRAVARG TRPGFRSALSFRPPGNRSRGVN LIKLGRLSPPPYPGFGGSYTPE NSQPLPSLLLHPLEKCALRDAE RQLKPPDHLMVAWLIPDVWN GEGEPSHTRHSLRASSSNYV LRAPEGNLLARRLPRETAINLQ PKACYKTLSPESFSHFYNQFC PRRHQWLPAQPPGHFFLG
10929	41297	A	10991	3	338	NSPSRPRSSQRGVAGRRSEAGP VAVP*GGPKKGRGC*GNRWG QRPRWMLRASGSGESTTPACSA ENRHAS*RKKRKRPGQVSWEE TEETRSGHSQPRGHAPELLHRP QRR
10930	41298	A	10992	3	226	TILSS*SSSSSSSPSPSPSPSPSP SPSPSPSPSPSPSPSSSFFLRWS PALFPRSLSFSLFPGTGTPFSCP
10931	41299	A	10993	24	489	KEYLVRTK*QKGKGENPLVKIT FRPPGLRTPSAPWSARSTYG RAAAVWRPHSPSAPRRGTHPW PAGHRGQRASGEGVGTHTHAH MSSVCACSTHTCWSRNCKDPR EDRGRGLTVLLEAAVCNSCLLL VLKTPRNPQLPILYTDSDTKSST GNP
10932	41300	A	10994	1	1491	
10933	41301	A	10995	140	308	RNVIKLKGWSRPSKQQDNPTLR PGPPSPAGGFQQLLMRMRPLA GGGKSWGIAHFYKPLQRERRA GAECGLARQVRAEVTKWIGVN RRPRKRKRMEKEEVFEKLLPD QLGILLEHLLEQKTLSPRTLQS LQRTYHLQDQDAEVRHRWCEL IVKHKFTKAYKSVERFLQEDQA MGVYLYGELMVSEDARQQQL ARRCFERTKEQMDRSSAQVVA EMLF*RGQDRFSLKKCDKVKG MVKTQQATGQPDSPPRPALTG RRVPATADADEKAFFGGWRKIL GYRTFL

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10934	41302	A	10996	219	688	RRMHAYVSLDPLERPPFFFFFLF FFFFFFFFLRRSFALVAQAGVHW RDLGSPQPPPPRFK*FSCSLPSS WNYRHAPPRPANFVFLVETGL QLPTSGDLPASASQSVGITGVS HCAWPGNWLLKETRCGSSVGR QITGPITPDWVDPGIPDRYLQ
10935	41303	A	10997	3	298	FFFFFLRQSFALVAQAGVQWRD LCSPQPPPPRFK*FSCSLPSSW NYRHGPPHPANF*FLVEMEFH HVGQACLKLLPSGDPPALASQS AGITGVSHRA
10936	41304	A	10998	2	438	APSVRSGNERDLARDEEAQETQ VRGCHASGG\CTPAATAGASPP AWAGRRGTGQRLRSQPRQTGR QPPRVQPLAPPPGAPAPLPNPQ NCRKTRSHPRFWAGTLAPGPC PGLWCLPGLVQVDVLAAGRCD HLSCLPPLCPQAFL
10937	41305	A	10999	2856	3044	GAATGEGGCCRLPGHPALAST A*AIPCRGPRVQETSPPPVLGW DPGSRAMSRALVFAWVGAG
10938	41306	A	11000	1	908	GLGDPGVPLRSGGLGPPADLK GDQAVAE*LHEASGVTEHHPS AQPGPGGEAAEPAHLIV*EPEG GSPGHPGGPGHPG*SEGPAGG KPGPAGGSAQGCRRSSEPSGT *SGRSPR*GPHGHPDCRTHPAR EGAQVHSRSPLPGGAPVRRGCS QGPEQRLQQEDFLRVQQLSAA GPLRPQLYPQVWLCPDEHQLLE QYPRSYFSERIDVFKPCGVQQG CPVLDRASSKISPEDAAGSVVR LRSLWAASGLQQGASGLATFL QLLTCGVLWPDEELVHLLLDE VVASAALRCPDPVPMPTCG

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10939	41307	A	11001	218	990	VLQLLKAMRLELFLPPGGFMV LLASGVKLQTFATQVPSWLHP VDPSPGLEVELPASPVQCAHTP QPLGGRWDWVPWSRGQRSSG RLGPHGSPWRRWEAQAWQPA GPKPCPVGS*GPVRNRGQRRW AGTAGDPVHPPQPLAQVLSPSL PGADRAGQLLRVQGPPSPCPPG TPAGPQGRCAAPVPTGVSPSTP PCKLREQAPALASPERGSHSAA VG*RAPQVLPKW*PELMFRWV RSFFLLVGSWLTSGVKLHPFVV SVTALKGDASGVIPSSRWVHGL AGLRCEAADLRDSGAQLASPS GSLTRTGGAACQSRVCPHSS AFGWSMGLGAMEQGAALIGEA RASREPMEEVGGSGMAACRSQ ALPRGQLRPSEKSRAAPVGWH CWGPSTPSAATGPGAKPLIARG RQGRPAAQSAGPAKPMPTRNSS WPARAVRSPGSHWRLSLHTSL QAERAGSGLGQPRKGLPQCSSG LKGSSSAKVVAAQEEAQRAS EGCEDYLARCHLSIRKMRRRN
10940	41308	A	11002	3	644	EPPGPTGPPSPQSPWHPGLPGR WSSTHVVFTHLHLAGPWSCD HRWMGKQLPVSLASGVQGV RFRSQDMYQSSRNKFPSGAAH VPQEWAVPWKNQGNTHQSSRP SESGCCAQAEGSNQCHQRQEA AGPSRLSLPDGGRRLET PRHPN GPWYWNNSPQRLN*WRRGDPS WPEPQGKPHGTGGARVPACQRR EICLSPFRGPRRRQKENIYEYL
10941	41309	A	11003	202	438	FHGHAPAGEMRGWPRVTKRSP AQSGKTHFPPGSPGPPDTSTESI FRRWKA PGFPGRGRTADPET ARCGAWDEIVEPV
10942	41310	A	11004	520	1094	GPLSQCPPLRLLPPLGVYSKGR APHADTHSPGHRRTAHAQPA AAAATATR*QRRRLPPRRTPF RRPAARPDRRVP AHSSAVLPRP GKPGAFQALRKMDSDVDVSGGP GEPGGKLG FARLRRAPDRLPG CPSSHFSQTQSLSFMAHNVDEP LESATSL LGLLRSSWFCFTWQK QTVYWSTGRIRHSGEK
10943	41311	A	11005	1	138	SISLMNIDVKILNKILANQIQQHI RKLIHHD*VGFIPCLRILVIYI

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10944	41312	A	11006	65	297	NQRLPQPFLPTTPPPATRAT*D EEKSPYPGPGSDKKCPTLQLPSP PTPSAGGFPLGESGSPGGLVK AQIMEGISM
10945	41313	B	11007	322	6900	
10946	41314	A	11008	3	215	
10947	41315	A	11009	1	234	
10948	41316	A	11010	149	300	
10949	41317	B	11011	28	162	
10950	41318	A	11012	700	861	RRKCIPGRRNSKHKGPDGAGRP *VCREQQEGQCAWTGYPGAQG PDPYCGKGPYS
10951	41319	A	11013	291	744	LKRTKCDQLKTSFLDLGRGPI LKWLCTSKWGHQIIIRA*GTE YKTTSFFFFFETASRLCHPGWE CSGAISAHS*FLLPGSCHSPASA S*VAVTTDTREHAQLIFF*HFSR DGFHVVARWLDLLTCDLPLSL QVLGYRNYIIIVRQLPSR
10952	41320	A	11014	139	414	SFKTAPPGFFFSF*LHLILMLKFT PGAIKLVFLQFLLGISFFFLGKP PSSWFRNESCSVFRKESSQSWQ GRAHVWG*SDPWSSGRSRAH L
10953	41321	A	11015	5	565	VHTTEATCTTTGAKPCPWPSKL ATRQDHSVLSSTSNPRGPTPHKS GSPETAGALSSGDAGSRGEGPR TVSSERSSPGKGGSTLLGTTA*G PGPAHFASAVLGPSSKSLQAAS *EVDSFPSSLLKTAVSVLASTVR LSVSFMPFITVSVTSSVISASSS PSELASMATLPGASG*AARAVN FELDEE
10954	41322	A	11016	188	515	SQTVSIVGELPIPRKRCEIGIWD AQKR/CPRLTGPWATISVPTISK KATGN/PQHNPHPRARYQINAE *WKVHF*TNTDRPSHECPCTLV VHRTLQDLRHKSSTSGGKTHG
10955	41323	A	11017	80	397	SVQRSVDHL*DHP*TSVDWELY LDGSSFANPCKVTLKTTTSPAS VTPEADWSMHQSQMRNSLRDS FSLKFGLIIHDFLTPTFNPLENP CGFLTRFCCVPNQISS
10956	41324	A	11018	104	392	PSQFHLKLLHMLALLYPVGTC QVKDSSLLQKSTSVPPDSPQTG H/SKLGPFPNPGFR*RPQCQPGV LPPDVELSCHSWSNVLWTTAA KTIPICSY

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10957	41325	A	11019	125	1404	NLALGMAMWNRPCQRLPQQP LVAEPTAEGERPHLPTGRELTEA NRFAYAALCGISLSQLFPEPEHS SFCTEFMAGLVKWLSEAVLP TMTAFASGLGGEGTDVSVQTL LKDPILKDDPTVITQDLLSFLK DGHYDARARVLVCHMTSLLQV PLEELDVLEEMFLESLEKEEEE SEMAEASRKKKENRRKWRYL LIGLATVGGGTVIGVTGGLAAP LVAAGAATIIGSAGAAALGSAA GIAIMTSLFGAAGAGLTGYKM KKRVGAIEEFTFLPLTEGRQLHI TIAVTGWLASGKYRTFSAPWA ALAHRSREYCLAWKAYLMEL GNALETILSGLANMVAQEALK YTVLSGIVAALTWPASLLSVAN VIDNPWGVCLHRSAEVGKHLA HILLSRQQGRRPVTLIGFSLGAR VIYFCLQEMAQEK
10958	41326	A	11020	3	1693	CQRLPQQPLVAEPTAEGERPHLP TGRELTEANRFAYAALCGISLS QLFPEPEHR*VLLSCPLGTPVGL HSDAHYGQRLAVAVHVEGTLP FTSSTFAAASVFQKARPWQHPG EQMAFSGKPFLVAAVTSAGGS GAPSVGCTELISTSVLGYHTAL EMAGLVQWLESEAVLPTMTA FASGLGGEGADVQILLKDPI LKDDPTVITQVHPTPGVKDGKL IF*ARVLVCHMTSLLQVPLEEL DVLEEMFLESLEKEEESE*ES PATKTEGGGEDKDRKHPLMGD KMTESKTDLWIYEMGNAGVLL FRRYLWLQPKKKENRRKWKR YLLIGLATVGGGTVIGESS*RCA PLVAAGAATIIGSAGAAALGSA AGIAIMTSLFGAAGAGLTGKVQ KE*VGAIEEFTFLPLTEGRQLHI TIAVTGWLASGKYREDQEDQA ALAHRSREYCLAWKAYLMEL GNALETILSGLANMVAQEALK YTVLSGKCPHLPWPASLLSVAN VIDNPWGVCLHRSAEVGKHLA HILLSRQQVPGNGCVIGFSLGA RVIYFCLQEMAQEKGEHGLL
10959	41327	A	11021	208	324	VSLLKAADNWL VNSYPFCNSV SSEFFFR*IRDFFLFWIH
10960	41328	A	11022	1265	1459	
10961	41329	C	11023	188	730	

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10962	41330	A	11024	64	228	QHLLRRWGRSGLLLNDR*VSN EIKMEINKFIELNNNSDTIYQTL WDTANTVLKFM
10963	41331	A	11025	1	648	
10964	41332	A	11026	26	613	VGAGGRGWRFAAAVRRAAGG GLRPGPAPGPRAGGGGPRGAH LALLRRAGALRAGKEYGKADA RWVYFDPTIVSVEILAVLDVS LALFLIYAIVKEKYRHFLLQITL CVCELYGCWMTFLPEWAHPEA PNLQQPATGWLWLGFTLFFF* RCVGFILPRNWLLWAVHGPRTS RKWHQKGNQFQWKEVFSGTF
10965	41333	A	11027	2	252	ARGRAGVAGGPR*AAELPGLP RDPFPASRPLRRSDCLGGLIRHK PPDPGAGARVEGEALPSWSPGG ALEEGVT*PGTRGPPWE
10966	41334	A	11028	3	637	RDQVRRGQGGEPARIQCPRRRL GEGPGAPNRLGPPARDPRCSPW PRADSPRDPNRLSSPQLPRPAYL GPACFP*PSWGVSRSLPSLAPW RPHRLPDSQRFPPNGGSRSRATS GSWTWKSKECREWRPSGSRGT RGSSGSGAGSSGSSAGVGRRAG HGRWHLR*GPLFPAAPASATCP LWHGWKGASLDLGLQPWATF YPRVTGARGGRTLGP
10967	41335	A	11029	158	462	
10968	41336	A	11030	339	866	QICHSPPGNKAHSHLLPYQTPV PSSQYPPSPSRTLQLPFPTWNP CQWPSRGSCGPSAVGTGPPFPT GIPSV*APSARG*HHSSACGCH PGCAGPQPARSHPGPAPASGCH TVSGCCHALLQSC LAPGRPSPA GTWPHPPPGLPSAPGTEPCTA FEGFQPPCWLSQHPLSPCL
10969	41337	A	11031	621	944	TPQGGTAPSGGRHPWASASPHR LPPL*CSARPGCH/SSRMRSPT RPSGPLQDCHPPPRPQTPHAGS HHTSAPQAPAGTF**RQRVAPG SSCWHLPPQSWSCSAWLGGC
10970	41338	A	11032	3	257	AGRASKGG*NPSKAVQGSVPG AEGSPPEGCGQG PAGLGLPGA RQDCSRA*QHPPGPGGGQEVY LDISLAPGSTGIQGLEAKHL
10971	41339	A	11033	94	227	SSYVFKSILTAFGMTWMRLETII LSEVTQG*KTKHQMFSLICGS

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10972	41340	A	11034	404	894	FVYFFRGELCKISSTLGFKGTGQ GLQPSKVS**VPSRPAGNGRPA YPETSQPPPGPSGG*HWLAGW Q*GGPEPGWTCIWP*GS*GTEIG SPSQPGPEPAGVPSPRDAGSAA TGCHTGLAGVWVPPRLCHRRV TDGRKSMKRCLSRSYCTSSVRA SGGGAGRIT
10973	41341	A	11035	1	408	
10974	41342	A	11036	68	204	SFLWHPLGLHFHHTH***NYKS SSK*MVRIRVTFSKFIFVRNNYC
10975	41343	A	11037	5	188	PQCRLHLRQGLALSPKLECSSAI TAHCSLELPGSSNPPSASRF*GS RSVAQAGVQQCYHSSLQPRTP GVKQSSLSFPFLRLQPKVSSATL PVRLQE
10976	41344	A	11038	1	263	
10977	41345	A	11039	2	283	
10978	41346	A	11040	1	1965	MAAENEASQESALGAYSPVDY MSITSFPRLPEDPAPAAPLRGR KDEDAFLGDPDTGEAR*PRPCP ALGSPRSSFFCVKHPGSPLRETR KDPFSAAAAECSCRQDGLTVIV TACLTATGVTVALVMQIYFG DPQVRGTNGEGEETGEWGVG* CLRNCGKGSSVDAAVAAALCL GIVAPHSSGLGG*GAVEVGPVQ AYFLPPGL*ASCAARALREETL QRSWETKVGTLVRRESSGESLF IALLLTQALIC*VLAQDGFNVT HDLGQWGLGIWERHEVDGEG* NL*DLEPPPLPGSLLHRPD LAEV LDVLGTSGPAAFYAGGNLTLE MVAEVSARVVRVGACPKVPIA GHPRPFFGVYRGDLSPGSQGP PSGEASQSMATSFWPFNLTSLV SREQALHWVAEVR LTRLPFPGF KDIRSGEIGYCHRADDMLRWV LGRTWGLQRQRWVWGKGQEK SSYELDGAPTAQVLIMGPDDF IVAMVRYASSDSEPGTRDPLNQ EGVGAG*RFSPNRTANHSAPS LVGFASLLSWGP*GL*VGGAM AWLPLCGTYLALGANGAARGL SGLTQVRFTPWLAFSREPSCG LDCRCLS*QSNLLQVDSECRAE TSWGGHRDR*RKDSSQGCPWV HGSRTNFIIVKDPSPDAA

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10979	41347	A	11041	1	363	SSMTTVHATTATQKTVGETLA* LLQNIIPVSTSVAEAMGKVIPEP DKRLTGMAFCVPTHNMLVVAL ICHLQKAAKYDGMRRFCNATT GITFNGHFVRLLSWDEFGSSNR VVDLMVHTASKE
10980	41348	A	11042	162	303	CLLLKSCSQEAAAALALPALGL VFDVFL*IYFVRTKYLRVGFRN FF
10981	41349	C	11043	56	118	
10982	41350	C	11044	345	410	
10983	41351	C	11045	7	439	
10984	41352	A	11046	2	80	
10985	41353	B	11047	205	5326	
10986	41354	A	11048	1	813	
10987	41355	A	11049	1	1454	
10988	41356	A	11050	2	1624	
10989	41357	A	11051	1	1185	
10990	41358	A	11052	1	2149	MKEKMLRAAREKGRVTHKGK PIRLTADLSAETPQARREWGPFI NILKEKNFQPRISYPDKLSFISEG EIKYFTDKQMLRDFVTTTPVLK ELLKEALNMERNNWWYQPLQKH AKNMPNSIILIPKGRDRTTKKEN FRPISLMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIPGMQGWFF NIHKSINVIQHINRTIDKNHMIIS IDAEKAFDKIQQLFMLKTLNKL GIDGTYLKIRIKYLGITREVK DLFKENYKPLLNEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAISNKLPMTEFFTELEKTTL NFIWNQKRARIAKSILSQKNKA GGITLPDFKQYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYTYLIFDKPEKNKQWGKDSLF NKWCWENWLAVCRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEEILGITIQDTGMGKDFMSKT PKAMATKAKIDKWDQIKLKSF CTAKETTIRVNRQPTKWEKIFA TYSSDKGLIFRIYNELKQIYKKK TNNPIKKWAKDMNRPFSKEDIY AAKKYMKKCSPSLAIREMQIKT TMRYHLTPVRMAIHKSGNNR QTESQIMSELPITIASKRIKYLGI QLTKDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRJNIVK\M AILPKPTNVHVTNLAAQDTTAL EAAQISLEGHPQEKEISVTAMPL
10991	41359	A	11053	1	2031	

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10992	41360	A	11054	1	1188	
10993	41361	C	11055	1	353	
10994	41362	B	11056	151	1608	
10995	41363	A	11057	1	373	
10996	41364	B	11058	1	488	
10997	41365	A	11059	1	1257	
10998	41366	A	11060	2	3527	
10999	41367	A	11061	1	2373	
11000	41368	A	11062	1	1755	
11001	41369	A	11063	1	1599	
11002	41370	B	11064	220	1286	
11003	41371	A	11065	1	1826	
11004	41372	A	11066	1	1645	MDKFLDITYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSK VSGYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRIN\ILKMAILPKNW KKTTLKFIWNHKKRACIAKSILS QRNKAGGITLPDFELYKATVT KTA WY WY QNRDIDQWNRTEP SEITPHIYNHMIFDKPDKNKKW GNDSLFDKWCWENWLAICRKL KLDPFLTPYTKINSR WIKDLNV RPKTIKTLEESLGNTIQDIGIGK DFMSKTSKAMTTKAKIDKWDL IKLKSFACTAKETTIRVNRQPT WENIFAIYSSDKGLISRIYKELK QIYKKKTNNPIKKWAKDMNRH FSKEDIYAAKHKMKKCSSSLAI REMQIKTTMRYHLTPVRMAIHK KSGNNRTRENYFKIHMESKKSQ NSQGNRKEKEQSWRHHAIRLQ TIVQGYTVAKTACYWYKNRPT DQSNRTENQEIRLHTYNHLIFD KPKDSNGETTPYSINGARITG
11005	41373	A	11067	1961	2588	KLAQDRDALSPLLFNIVLEVL ARAIQKEKEIKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSK VSGYKINVQKSQAF YTNNRQTESQTMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIK\EDTNKWK NIPCSWV GRINIVKMAILPKVNYRFNAIP IKLPMTVFTELEKNYFKVHMGT KKEPASPSQS
11006	41374	A	11068	2	278	
11007	41375	A	11069	3	274	

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11008	41376	A	11070	261	1382	LELSFPPAGQRGVLSGDPQNLCTCPSGSWHVPRCWAVERQRPNLPRVTVTQLVAEDGSRVYVVGTAHFSDDSKRDRVVKVSAATRHIPDTGWCKLLPGSRDGLVRFPTRYVSMLKMDESTLLREAQELSLEKLQQAVRQVRSRGQSGSGSGSKPPHITEQLGMAPGGEFREAFKEVGTG*GRGWPQCGSQAVTFKRAIAALSFQKVR LAWGLCFLSDPIR*GCPDPGRPAGWSVGMAEMIGEFDDLHRTIVSERDVIYLYMLRQAARRLELPRASDGDGRPQAWDPL*G*GPRGHVPGIEKNWSTDNIQEIMT*VPAPPCKPHPTSPQVAFFGLLGYSLYWMGRRTASLVLSLPAAQYCLQR
11009	41377	A	11071	3	506	KDCQF*VGPEQKKALYKVHAPIQAALQLGPYE*ADQKRTCVRFRHHTCETAFTFWKSLGLDKVTKPRSSSSQLLALAIRSSPGSTTDACLLDSFSGKSRISWFGS
11010	41378	A	11072	2	374	IRRESTHLQALGTTTPQDR LTCGHSAQPPACASPLPPGPP*SSAWPLPPSTRLARQKQAAATAQP*PLTTQTLGPWSSASTWTSAHKQPGAAAQEWSTAGSRQLLAGASGSSPSSCSVWTN
11011	41379	A	11073	3	553	
11012	41380	A	11074	239	547	GHHFQMNVCRCVWMLSLEPHVPGQIHSC**ERAKLCGKEFNRMHNLMGHMLHSDSKPFKCLYCPSKFTLKGNLTRHMKVKHGVMERGLHSQVSRPSLEA
11013	41381	A	11075	1	267	MAISMVTTTRSTTIRTTAAGCHYENDMAHNHSDRGGLPLKVVLTPFLTTPPGKGGGAAGALERRTEGDRDAGGAAQEGGLTPTSPVPSS*HTLWLRTVDPEASTSPSTRHPYPNRRGGGGRALPHPRR*V*AGCHYENDMAHNHSDRGGLPLKVVLTPFLTTPPGKGGGAAGALERRTEGDRDAGGAAQEGGLTPTSPVPSS
11014	41382	A	11076	1	1707	
11015	41383	A	11077	1	1407	

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11016	41384	A	11078	1	1275	MVKGSIQQEELTILKIYAPNTG APRFIKQVLSDLQRDLDSHTIM TGDFNTPLSTSDRSTRQKVNKD IQELNSALHQADLIDIYRTLHPK STEYTFFSAPHRTYSIIDLIGGSK ALLSKCKRIEITTNCLSDHSAIK LELRIKKLTQNRSTTWQLNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTIQKISESRSWFF EKINKIDRLLARLIKKKREKNQI DAIKNDQGDITTLERVVLEEPD TLHLLNYTPRKVLYRWNRQSS TSVIETNKTSVELSLPFDEDIIE IKPFSDGGDGSSEQIRIPKIS/NK KTK*PNPWRQK*G**LAVADA YARGSGASTSNACTLSAISTI
11017	41385	A	11079	1	426	MLHTKQHLSMGTEDMDDKLH FSDCSAASLVSLSTTTGGHVLT NMSADIARYLPVLYRWNRQSS TSVIETNKTSVELSLPFDEDIIE IKPFSDGGDGSSEQIRIPKISNA *ARGSGASTPNACALSAISRIMI SLTARSSL
11018	41386	A	11080	3	620	DRTLAEAPHTAPARSGHRGWC PRPHRRRRNRGRQLLAPGRGA DPGAGEAATVQWRLLRGQPAA ALHVQQGAGDAANAGLQRGA HADSHDRAVPAGHAPGPVAAA GRGHDGQVPAALG*AGGPVGL RRPEPLQTRGKGRLAPATQQV GQARRLPTRGQQLLLRRPQPAA HHGPRPRLGGRGRGGSHKSPPH GIWPRLAGWRATLE
11019	41387	A	11081	335	640	PLGVLWSLWKS LVHSDAGAGE L*EVITGSTWPNP*QCCLVPNV DDEEEGEEQDDDDDEEEGL*D IDEEGDEDEGEEDDDDDVEEG EEDEGEDDWKFAKE
11020	41388	A	11082	2	204	

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11021	41389	A	11083	3	1471	SKDTRKRDVDSKSPGMPLFEAE GVLSRTQIFPTTIKVIDPEFLEEP PALAFLYKDLYEAEVGEKKKE EETASEGDSVNSEASFPSRNSDT DDGTGIYFEKYILKDDILHDTSL TQKDQGGGLEEKRVGKDDSYQ PIAAEGEIWGKFGTICREKSLEE PKGVIYGEGRISRPCGDRW*RSD AESSHHRGRQSGYPENKLCGF LLKTPHHVLERADEAGSHGNE VGNASPEVNLNVPVQVSFPEEE FASGATHVQETSLEEPKILVPPE PSEERLRNSPVQDEYEFTESLH NEVVPQDILSEELSSESTPEDVL SQGKESFEHISENEFAEAQST PAEQKELGSRKEEDQLSSEVV TEKAQKELKKSQIDTYCYTCKC PISATDKVFGTHKDHEVSTLDT AISAVKTVIRSDKTKSGEGAY GREMKSPHKFPEGKIHNDKEH DRIVQEFLAETGPKVTRFNEQC RFRPRIYVYENNQTQIMVEEPQ
11022	41390	B	11084	148	235	
11023	41391	A	11085	30	420	VSGTRGPSCLGTSWASGAWR PPLGGLPPSAGANGPGRVRSAA GCSLVAGCKVLGSWVSGFAGR SHVACAGSSGESVRARCPGTA* AAGGPGPQAFQAAY*QGSRMH RAPPRPNRQVQVTWEEGAGTG
11024	41392	A	11086	2	73	ERLRMPGVAKGRPR*GNPRRG RG
11025	41393	B	11087	1	1412	
11026	41394	A	11088	39	427	PPYWGHFHSSAAASAALKGKD GGSSRSLVPPAQ*HSHSPSKTHC VHTPSRSCAQGLTHTLTQSPPSL KIAQSPSFDARAHARLRIWQIPS APRVPLSASLSPTRTAGSVRFE SQSTKTSRSHRFLPRT
11027	41395	B	11089	1	813	
11028	41396	A	11090	3	365	RTPSSKGCGRPPRGMGAQGSA GCGRRRSPRRSRQARRWSHPC* PPSSPPWPRPARSPPGCSHRAAL SSPSPSSFLARHSARPLALAL GPPPWCSSGCASSAPFDLQHPE QSQNQDARG
11029	41397	C	11091	295	412	
11030	41398	A	11092	21	164	GAVTENDFYDLVRTIGGDLVE KVDLIDKFVHPK*VKSFLILPLTI SV

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11031	41399	A	11093	1	1373	GISTMVGSALRRGAHAYVYLV SKASHISRGHQHQAWGSRPPAA ECATQRAPGSVVELLGKSYQD DHSNLTRKVLTRVGRNLHNQQ HHPLWLIKERVKEHFYKQYVG RFGTPLFSVYDNLSPVTTWQN FDSLLIPADHPSRKKGDNYLNL RTHMLRAHTSAHQWDLHAG LDAFLVVGDVYRRDQIDSQHY PIFHQLEAVRLFSEHLEFAGIKD GESLQLEQSSRSAAHKQETHM EAVKLVEFDLQTLTRLMAHL FGDELEIRWVDCYFPFTHPSFE MEINFHGE\WLEVLGCGVMEQ QLVNSAGAQRIGWAFGLGLE RLAMILYDIPDIRLFWCEDERF LKQFCVSNINQKVFKPPLSKYP AVINDISFWLPSENYAENDF*Y LVRTIGSDLVERVDLIDKFVLPK THKTSHSYRIMYR\HMEPTLSQ\ REVRHI/HIQALQEAAVQLLGV
11032	41400	A	11094	8	119	
11033	41401	A	11095	2	475	QAGPSGGIPEGIAITGDDSSMHA IAPEDLPVGQDVEAEDSDTGDL DPVLTVFRRGVEREFFSNWYKT AWSFSKLAQKGLLSS*PSSLSSS SSSSDKAVTAGTELFASSLSSSS DPRRSISSSSLLFVAPLPVVSSTL AGPYLPTAFFTPGRLAFSFS
11034	41402	B	11096	677	696	
11035	41403	A	11097	1	357	STMIEAHVDVRTTDGYFFLLFC VGFTKKHNNLIPKTSYA*HQQY ICLPHQDDRVT HQNPSLPDGSIA RVLSIYYLYISRREMNSIISQGL QKVHIHIVIPGSLMNQELLDDLI TVFFKA
11036	41404	B	11098	1	541	
11037	41405	A	11099	14	671	PAPWRLGKNKRLTKGGKKGA\ KKKGVNPFSSKKEWY\DIVKAPA MFNIRNIGKTLVTRTQGTKIAS DGLK/GVRVFEVSLADLQNDDEV AFRK\FKLITEDVQGKNCLTN\F HGMDLY/TRDKMCSMVKK\WQ TMIEAHVDVKT TDGYLLRLFC VGFTKKRNNQIRKTSYA\QHQQ \VRQIREGRWM\EIMDPRRWQD QMDLEEVGHELIAGSIWKRHR KGLPIYLSSP

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11038	41406	A	11100	1	217	RQGLTLSFRLECPGVISAHCSLN LPGSSKPPASAPQVAGTTGVYH HAS*FFIFFVEMGFHHVAQPGL CNFVF
11039	41407	A	11101	2	442	LDVQIQEAQRTPGKFIKRYSP RHFVIRLSKLKTKERILRAVRQ KHQVTYKKGKPIRLAADFSTETL QARRDRGPISLLKQNNYQPRI LYPEKLSIIYEGKIQSFSDKQML REFAIRKPPLQELLKGSLNLETN PGNT*KQNFFKA
11040	41408	A	11102	2	545	EPRPGEKTAHVYGPDCLCGSCV QLSFGGAFFSTRWVSYEANCK GEQVFVEKGEYAHWDWWTSS QRT/DLSSLRPIKVDSQEHKILY ENPNFTGKKMEIIDDVPSFHA HGYQEKVSSVWLRSGTWVGY *YPGYRGLQYLLEKGDYKDSS DFGARHPQVQSVRCIHDMQGH QCGAFHPSK
11041	41409	A	11103	2	389	EIIDDVPSFHAHGYQEKVSSV WVRSGM*VHCQPWLTPQELR LWGPRSGETLALTSAPVSKTCD FGARHPQVQSVRCIHDMQGHQ CGAFHPLGTQEEEEAGQKEQM EQVPFWLARGDICELSGKKS
11042	41410	A	11104	1	446	MEEEELEFVEELEAVLQLTPEV QLAIEQVFPSQDPLDRADFN EYINTLFPTEQLPMP SAHGGVSS CGNAGGPVSFATRENARCGIW GSGGVCDGVFGA/GAAGWGGV *GGGALGWMLSGRRIVLRS AIF TSPVSRAGSPERGWS
11043	41411	A	11105	1	210	SSDGRHLAFDQGSPG*VLGHVG KQRAVDVQPSVAVRVRQPLLL LSTIMGSLLGWEQGIDILNSIEI CSI
11044	41412	A	11106	2	287	AAESPRSTRTDGAGLTRSLPR GSRGAGWVAAGGLSWARGG GRQEAGWRNDG*GGTGARGG AGSRAAAHARGAAGHRASVSK PGPSRSSRFQCC
11045	41413	A	11107	150	389	GEEIAWLGAARPGKPTPSRIPL* PSLFPWRPHKFPERSVFAGSQP ASQSPPLRPPPPSHPEGSCLGSR LPPPGYLLPLR
11046	41414	C	11108	43	213	
11047	41415	A	11109	3	246	SSFPAPAREGALAPCRCLAGISV TLQGNP*GRCHHHHHHHHHHH HRCYDSQESGKLPRPGPKAELE GPPAWLLVGPGAHP

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11048	41416	A	11113	1	726	
11049	41417	A	11114	2	251	LSCGRSLHQGSVTSCKTINALT LTVDTWRGCAW*GCACTFHCR SATNMIRAYVYFSTISVLSLQEI RLSLRAILADLRSLICF
11050	41418	A	11115	1	1041	
11051	41419	A	11116	1	398	MGPNSTLENLLKGATSVFYNR DQEEAQKKERKLRGRTKALAA ALQ/SWQSPGAPRCIH*LLSVW QARVF*RGMPRQQDEATSTLSI QWQKPVELSPDMEVTGFRA SLTDERVHLPEVLPQEYTEQRR QGHL
11052	41420	A	11117	5	137	
11053	41421	A	11118	5	272	
11054	41422	A	11119	2	211	WNQPRCPSTVNWIMKIWYIYT MEHYAAIKRNMIMSFAATWME LEAIFLSKMPQ*QKNKYCVFLH ACLES
11055	41423	B	11120	1	1560	
11056	41424	A	11121	1	588	
11057	41425	A	11122	80	574	EPAAQGNVLVDLLC*MKNRNR WLPNELSQVLHVTQSQFSKTG MSAKHTAFAMRMSPAQMTDIV VGLSTGQSPFMVLMQQGGHSA MQETRIASLPVTAIPAGMKIPCV TAGSACMVGPSVRVNEWFSAY GMAGMAYSRVSTFVRGLSPRY LTTREAPGCGSSAGH
11058	41426	A	11123	48	131	
11059	41427	A	11124	1	1195	
11060	41428	A	11125	2	1028	
11061	41429	A	11126	1	1008	NMMEQVLDIPSL*VISKDNANV TIDAVCFIQVIDAPRAAYEVSNL ELAIINLTMTNIRTVLGSMELE MLSQRDSINSRLLRIVDEATNPL ALKIAARMIEDGELDKRIAQRY SGWNSSELGQILKGQMSLADL AKYAQEHHLSPVHHQVAEWM RARNGQLFRLRSNHLTLLVEQN NFYARGAKIYPDIHIDRSLKKCP SDLFAANARCGICQQSDERCLR YQPRRERGLYRIDITYPGKSYTT TALPSRFVWFVTGKAQSTQAS ALSYIDSLLYHHLDLYGQRLGH LDDGTDSWNHVP TLNGQCTLV LIHEYVDTRGPEIKTILVISWWN ILVFH

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11062	41430	A	11127	3	333	DIGIGEENRKRWLRTGKCSFLP KEREWMDRLMSWGLVDTRH ANPQTADRFSWFDYRSKGFDD NRGLRIDLLLASQPLAECCV*T GIDYEIRSMEKPSDHAPVWATF RR
11063	41431	A	11128	2	136	YCKLACLQVDSRGSQVFALDV AARHR*QFAMPESDAVAMLKH LS
11064	41432	A	11129	3	431	GVFGRVSEKQRPAAPAAGERPL PRPRPLPCGAAARTGPFAAQAA *RAAAAPRSERRRRHHGAEEGH QRCIYRHAADRALGEAARTG YALRPAGEPELAAAARRR*RAP DPGPRVPRHLGLLATRACPPGG AHCSPERGAISW
11065	41433	A	11130	64	2436	RRQGLEGWWAIGLEGLTGKAL AWLFTVPGVRGLQWSPRFFLTR LRTLCKVLGVLFVAGGKKG PTCILQILKGQRRQEA*CISGWA ERVWASGQA*WEVWLHWAKS RNWFLFWKQHVHALRVRLDTT LFSLEEGSSFWNQGLTWKVVR RTFSESINHTPRITLGVPSVHSF QLPGLLNFGFEKVCVFLSPRIFN LTHENFLSSEGPEIGLLGATFN CLNKRLAKYMRNVHPKPKLV RYLHSRLPPEPAAAP*AWCGPR HLSCRQMSSSSQIGNDSFQLQV TPVHLLPLSHTTRKNPEMYDLP LLFFNPQESAILQLFHQDGECLH CSPIVGDWCHLGHSQACPSFSV PSGLFVPSLLCGAAFGRVAVN LKRYSVCVRVCAHVHVCARVR VYACVWVRMTISLTVILIESTN EITYGLPIMVTLMVSTLPPGPCQ AQGHVRPTGPFRSLLEWETEV EMDK*GHDFAHVLVSECISSEA *GMLLFCGGPDRSLFSTFRAVW SLSRLLDSVIAAGKQ*A*RT*SV GYSLLCPDLKGDPSAVSILRTT VHHAFPVVTENRGNEKEFMKG NQLISNNIKFKVKKTA*EERQV RDKRSRLTRLSALELRNMCDE HIASEEPAEKEDLLQQMLERR* EPGGAPTARRATQRWGEPLAQ MFPLTFHGLILRSQLVTLLVRG VCYSESQSVSLSAEISQARPDE
11066	41434	A	11133	3	80	

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11067	41435	A	11134	2	958	LKCELS\DQGLAPAIQTVRLTHE SLTALEIPNALLQTIQDLILDLR VRCVMATLQHTAEEIKRLAEK EDWIVDNEGLTSLPCQFEQCIV CSLQSLKGVLECKPGEASVFQQ PKTQEEVCQLSINITQVFIYCLE QLSTKPDADIDTTHLSGDVSSP DLFGSIHEDFSLTSEQRLILVLS NCCYLERHTFLNIAEHFEKHNF QGIE*ITQVSMASLKELDQRLFE NYIELKADPIVGSLEP*YAGYF DCKDCLPPTGVRNYLKEALVNI IAVHAEVFTISKELVPRVLSKGI EAVSERAQSTDAVCFILQQKWS
11068	41436	A	11135	52	1053	MDEEERVYRACYILCISLLSSPG NPGLHSPMLDLDNDTRPSVLG HLSLFLIQKYNHSILFFSPLAWR YKTPHRVAFVEKLTCLVLSQLP YF*IISNMFYFVFLIFKTAESNP INHI*TRLCLFLVF*KMIQEVMH SLVKLTRGALLPLSIRDGEAKQ YGGWEVALRSHSAHFCLDVV RRLTHESLTALEIPNDLLQTIQD LIFRPGSQL*PVSRIFFSAGTFRF KNHLHDFTGFHTCLTGAPRGPV GGCASDDGQAAADTSQWLS*I* VLYL*LFLASMFSLSVDVFSL AP*R*FSKHLFCF*EQRLILVLSN CCYLERHTFLNISHGSP
11069	41437	A	11136	50	426	
11070	41438	A	11137	2	949	QQVWKQNCFKHYSNETDNSTT QLVGVTQLQVVVPSLILCEHCM NFSSPHVWCCMVQAVPGGQGQ TIMQVPVSGTQGLQQVSN*KY *AVYQRRGFKE*IITGQTQQIII QQPQTAVTAGQTQVIPLALSHR SKTDLEESDN*VRYQPVNADGT ILQQGKCTHKLP*DFLGQLFCPL DN*HTTSSGQGTVTVTLPVAGN VNNSGGMVMVRKCIFQLCL*N FLEHAT*CLLKEEPLYVNAKQY HRILKRRQARAKLEAEGKIPKE RRVCITLGRI*ERRIAGFYF*NY LFSPKEKDSPHMQVGRHIHFILL FITLY
11071	41439	B	11138	26	80	

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11072	41440	A	11139	203	797	HRHIARHLFPRTP*LSWQGS *TPRWKGVRAVVTQPRKERRA ESEQFQATKPRSQL*LQPPTPSL VSSCQLKTTAASRPLT*PSKSVY PSAPFHPWLPC/SKPERSVSPES NDSISEELNHFKPIVCSPCTPPK RLPDGRVLSPLIIKSTP/PQPKQK PAEADFL*GQSTDQPQKVGTDLS GAADQKDPFKSHSYLSGS
11073	41441	A	11140	33	379	EATSNFKQPPSLPFWCLKSRTSL KPRQSKVCSSSPVI*GKTGNEL ALQIP*FKSSCGPRFPD***PAGR /SAPSLGPPPSQSCAHQ*EHWVQ VCIKHGITNAEPPAEHLKVLVR E
11074	41442	A	11141	248	622	SESSGRFWLCGLGPGTSPLLSL KFPHLLPASRGRSPSPRPRVPR GKATQVWAWGYRCVDEDPA RCLGTPGRTD/PHCGQGLLCPL GKSCSTSQPLSQDGRGTSWDR SHACSPGGHPHRCIGCM
11075	41443	C	11142	1	1311	
11076	41444	A	11143	452	1286	
11077	41445	A	11144	2	299	GLPLAHGLLGRFGMDRIYEGQ VEMTGD*CDVESIDGQPGAFTC YLDVGLARTITGNKVFGALKG AVDKGCSVPHSTR*FPACDSAE FALGIPYFVQPN
11078	41446	B	11145	49	832	
11079	41447	A	11146	1	1074	
11080	41448	A	11147	1	360	
11081	41449	A	11148	1	1155	
11082	41450	A	11149	75	266	
11083	41451	A	11150	2	222	
11084	41452	A	11151	1	549	
11085	41453	C	11152	453	665	
11086	41454	A	11153	1	1962	
11087	41455	A	11154	1	295	ASTAGVSYYYVAQAGLKLLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSL\YIYFFLDEFM YFAGTWMKLETHLSKLSQGQK TKHRMFSLVGGN
11088	41456	A	11155	1	363	
11089	41457	B	11156	1	375	
11090	41458	A	11157	1	197	
11091	41459	C	11158	1	270	
11092	41460	C	11159	1	146	
11093	41461	C	11160	1	268	
11094	41462	C	11161	1	301	
11095	41463	A	11162	1	289	
11096	41464	B	11163	19	240	

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11097	41465	A	11164	2	253	
11098	41466	B	11165	1	978	
11099	41467	B	11166	1	316	
11100	41468	A	11167	191	319	
11101	41469	A	11168	608	763	
11102	41470	A	11169	274	437	
11103	41471	A	11170	1	417	
11104	41472	C	11171	1	792	
11105	41473	A	11172	3	449	IYLTKEKLDLYKEKCKTLLKEIT DDTNKWKHIPSSWMGRINIVK MTTLPKAIYKFNAIPFRIPPSFFT ALEDTILKFIWNQKR/CPHSQCK IKQKEQIWRHHTT*FQAIL*GHS HQNS/IGTWMKLENIILSKLLQG QKTKHCMFSLIGGN
11106	41474	A	11173	1	441	
11107	41475	B	11174	1	597	
11108	41476	A	11175	5	265	
11109	41477	A	11176	3	280	SIYPNTCTRMFIVALLTIAKTWN QAICPTMIDWIKKMWHIYSME YYAAIKNDEFMSFVGTWMKLE TIIFSKLSQGQK\TKHRMFSLIGG ELEQ
11110	41478	A	11177	590	747	KAYQPEKAQDQVDSQPNSTRG TWMKLETIILSKLTQE\TKHC IFSLISGS
11111	41479	A	11178	3	274	FYYKDTCTHMFIVALLTIAKTWN NQPCKPSVIDW/IMKNMWHIYT MEYYAAIKNDEFMSFSGTWMK LETIILSKLTQE\QKTKHCMFSLI SGS
11112	41480	A	11179	1940	2061	
11113	41481	A	11180	493	743	KATRSVNC/WWDHL*RPFWGS PH
11114	41482	B	11181	1	1248	
11115	41483	B	11182	50	8445	
11116	41484	A	11183	40	125	
11117	41485	B	11184	1	1896	
11118	41486	A	11185	1	624	
11119	41487	A	11186	1	357	
11120	41488	A	11187	1	304	
11121	41489	A	11188	681	834	
11122	41490	A	11189	3	2128	
11123	41491	A	11190	175	402	

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11124	41492	A	11191	46	790	NPGAVKMPAYHSSIMDPDTKLI GNM/AHLLPIRSQFKGPAPRET\ KDTDIVDEAIFLPSGPNVFF\KN YEIKNEADRTLIIYITLYISECLK KLQK\CQFPKAQGGGKEMFYA GESTNFSHFLGEPGFPTLTAILC PNPANK\QEDEVMRALFTNQP KGKRLGLRLCEKSFSDP\QNG*T PAKWVDLAFVKRQFMNKSLS GPWTVEGSPGQPTVSRGPGAAF FQQDVTQSFCLYLVKFYRDERR ACLYLKNS
11125	41493	A	11192	1	828	
11126	41494	A	11193	1	525	
11127	41495	A	11194	43	1826	THVRLAGARASPRAPRLRPRKP RPQGLPCLPGLRRARLEGGARG RADEMFLPLPAAGRNVVRRL AVVRSGSRSLSTADMTKGLVL GIYSKEKEDDVP\QFTSAGENFD KSLAGKLRETLNISGPPLKAGK TRTFYGLHQDFPSVVLVGLGK KAAGIDEQENWHEGKENIRAA VAAGCRQIQDLELSSVEVDPCG DAQAAAEGAVLGLYEYDDLK QKKKMAVSAKLYGSGDQEA WQKGVLFASGQNLARQLMETPA NEMTPTRFAEIIKLNLSASSKT EVHIRPKSWIEEQAMGSFLSVA KGSDEPPVFLEIHYKGSPNANE PPLVFVGKGITFDSSGGISIKASA NMDLMRADMGGAATICSIVS AAKLNLPINIIGLAPLCENMP SGKANKPGDVVRAKNGKTIQVDN TDA\EGRLILADALCYAHTFNP KVILNAATLTGAMDVALGSGA TGVFTNSSWLWNKLFEASITG DRVWRMPLFEHYTRQVVDQCQL AD\VNNIGKYRSAGACTAAAF LKEFVTHPKWAHLDIAGVMTNK DEV PQSTGKA*LGRPTRTLIEF L\LRFSQDNCLVQILKNVFH SVL NWTVELKKVFE
11128	41496	A	11195	1	273	

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11129	41497	A	11196	2996	8256	LPTRRSWAVFFKGGESGAHTLR RKARKKRKKQVKGGSPKKGEE AKKVEAPRLPKLAAPGGGAGA KGGAGGTSDMRLWSVVLHLG LLSAALGCGLAERPRRARRDPR AGRPPRPAAGPATCATRGPRPP RLAAAAAAGRAWEAVRVPR RRQQREARGATEEPSPPSRALY FSGRGEQLRVLRADLELPRDAF TLQVWLRAEGGQRSPA VITGL YDKCSYISRDRGWVVGHTISD QDNKDPRYFFSLKTDRARQV
11130	41498	A	11197	75	266	
11131	41499	B	11198	1	363	
11132	41500	A	11199	1	649	PRIRHEVIEEVIRMMLEIINSLCT NSLHHNPNLVYALLYKRDLFE QFRTHPSFQDIMQNIDLVISFFS SRLQAGAELSVLEVLEIISQGV ALRCPKDRLEISQKLKFKYVE EEQPRGVF*SPYVWSLVQLQ SALYWEFHRTFQLFHPWDSRLR GRDASSPPGTPSSQGRPFQSSFIS GVTEVGQTGYLVYLLLKEDCT SVFSSHTLIWRIGC
11133	41501	A	11200	108	210	
11134	41502	A	11201	53	259	
11135	41503	A	11202	1	2679	
11136	41504	A	11203	1	675	
11137	41505	A	11204	834	1077	KGLWTVPPSFGDTVSGPPVPTG GSAGHTVPPPPR*CRRQPPSP WRRLFLPQLRSRSSQPPAGPAR HLPPPAARPECFCA
11138	41506	A	11205	1	681	
11139	41507	A	11206	1777	1940	VPILPQPLLLHPIILLS*VPILPQP/ PAPPPYNPFITSPHTWSGLQFH SVTSPPPPAQQFTLKRVAEAKGI VK
11140	41508	A	11207	3	547	
11141	41509	A	11208	1	578	
11142	41510	A	11209	194	379	
11143	41511	A	11210	1	927	
11144	41512	B	11211	1	916	
11145	41513	A	11212	1	441	RRKLQKQALGPEQNLETLLNL ATSVFYNRDQEEQVQKEKRDQ RKAAALVMALRQTNLGGSERT EHEAGQSPGKACYQCGLLGHF KKDCPMRNKLPPR/RVSTMLRQ SLEGALPQRMKVPWVRSPQPD DPTTGLRVPGASASSCHHPH
11146	41514	A	11213	164	359	
11147	41515	C	11214	157	189	

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11148	41516	A	11215	13	399	VEAFPTGSEKATAVISSLLSDIIP QSRLPTSIPSDNRRAFISQISQAV FQALSIP*NLYIPYGPPSSRKH/T LTKLSHQLKKDWTILLPLSLLRI QACPRNATGYSPFKVLYRHSFL LRPSLIPDTRPT
11149	41517	A	11216	2	152	WYGEIMGDVVSQGCER*WAMF LRAASSGIRGGVGT*SGRH*AE GRFYGDFRGNRAASVFSR
11150	41518	A	11217	1	1143	
11151	41519	A	11218	28	453	
11152	41520	A	11219	275	1128	DISTPSLATDHMPITIPNLIT/TY PTQRQYPIPPHALKGLKPVITDL LQHRLLKPINSYPNSPILPVQKP DKSYRLVQDLRLTNQIVLPIHP VVPNLYTLLSSIPSSTTHYSVLH LKDAFFTIPLHPSSQPLFAVTWT DPDTQQSQQLTWAVLPQGFRD SPHYFSQALSHDLLSFHPSASHL IQYIDDLLLCSPSFESSQQDTLL LLQHLSFGYQSDDRPAFTSQI TQAVSQALGIQWNLHIPYHPQS SGKVEWTNGLLKLKLLLLLTANI DDTSYLQIPHKGLQ
11153	41521	A	11220	1	606	
11154	41522	A	11221	713	835	LSQWRSDNGPAFISQITQAVSQ APGIQ*NLYIPYHPQSSGK
11155	41523	A	11222	1	1133	AEALPVQFYFHLSDIRGMLLHE PDLQKGKAVSQEDPQWSYQA DSPGIARRDYMVSRLVEGLKK AAYKAVNYDKLKKTTQVTIVP GPDFNLASHIIPDTPDPHDCYL SDTPGIHSISHISFFAIPHPDHTW FIDGSSTTPNRHTPAKAGYAIVP STSIIEAAALPPSATSRQAKLIAL TRTLTLAKELCVNIYTDSKYAF HILHHHAVIWAERGFLTQGW SNINASLIKTLKATLLPKEAGV IHCKGHQKASDPIAQGNTYAD KIAKEAASGPTSVPHGQFFSFL VTPTYSPKTKSTYPSLLTQGW FLDQGKYLLPASKAHSILPSFH NLFHVGYKPLAHLLEYLISFLS WKSILKEITSQ*SICYSTTPQG
11156	41524	B	11223	1	1156	
11157	41525	A	11224	1	4991	
11158	41526	A	11225	3	590	
11159	41527	A	11226	203	1772	
11160	41528	A	11227	1	1669	
11161	41529	A	11228	1473	1604	
11162	41530	A	11229	82	159	

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11163	41531	A	11230	1	1323	
11164	41532	A	11231	377	631	LLKGKLTNRKDIHTKTPSVRHH HRRPKPGRDTTKKILNQYPW* TSMQKSSIKYWQTESSSTSKSLS TMIKLASSLGCKNWKKL
11165	41533	C	11232	1	1677	
11166	41534	A	11233	753	966	FVFLWSLMMV TYRWGFGVDV LSVC*FSFQQSVEPQLQVCWSLL EVHS*PCLPGYQQRNNSCWPRG SCDVVIT
11167	41535	A	11234	1253	1459	LSDSPKLLK*KKK*GQPERKVG LPTKGSPSD*QQISWQKLCKPE ESGGQYSTFLKKRIFNPEFHIQQ
11168	41536	B	11235	1	924	
11169	41537	A	11236	299	436	
11170	41538	A	11237	259	536	FQKEWYQLLLVPLV/EIWL*IHL VLDF*LVNY*LLPQFQSMMLLV SSEIQLLPGLVLGECMCQGIYPF LLDFLWSLMMV TYRWGFGVD VLCVC
11171	41539	B	11238	79	1587	
11172	41540	A	11239	1608	1763	
11173	41541	A	11240	1	2001	
11174	41542	B	11241	1	741	
11175	41543	B	11242	1	1368	
11176	41544	C	11243	1	3924	
11177	41545	A	11244	470	619	KVTRGWGSPHQDAG*SPCQSH QDQTP*GILKEHQEKARRK*RQ LCVLQL
11178	41546	B	11245	1	3546	
11179	41547	A	11246	363	476	
11180	41548	A	11247	1	759	
11181	41549	C	11248	376	986	
11182	41550	A	11249	556	821	MSIRSTWRRAEFNSWVSFLTFR LVDLSLVFDDGDVQVGFWC GC PSCLLVFL/ISQDPQLQVCWSL QEVHSRPCSPGYQQQLQYSEY
11183	41551	A	11250	119	340	
11184	41552	B	11251	1	942	
11185	41553	A	11252	436	732	LHIWPFLLPCKAQNQVHCSKFC PLGRFPFMAVLQGCPRKGL*CC SCPLLGGIWI SCRIICAFRTYLRP IMYIPLPFADGMLLCTAHS MAR CFGYCSLVV
11186	41554	C	11253	1	1878	
11187	41555	A	11254	720	1535	ILPEVQGGAGTI*LSLFLIE*PLF LSPA*LPWPELPTLC*IGVVRDG TPVLCQFSKGMLPVFAHSV

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11188	41556	A	11255	2	1059	WLLAASPLWLCRIRP/LILAAFM GWQSRSA LGTQS QESGKGSPD QVLVPQDCGPWLG SVELV SVP GSQAGEEPILSENKGRVTQM KI PEERSGSNICCSAIFAVLQPPLLI PRQTRSGVDLQQNPTDLQLRVL TVRRKTNKEKGHPHQNPCTSP ASKTKGALRFIKQVLRDLERAL DSHTIMGDFNTPLSTLDRSTRQ KVNKDIQELNSALHQVDLIDIY RTLHPKSTEYTVFSAPHHTYSKI DHTVGSKALLSKCKRIELTNCL SDHSAIKLELRIKKLTQNHSTTL KLNNLLLDNDYWVHKETKAEIK MVFEIDENKDTIYQNLWDTFK AVCRGKFIALKAHKRKQERV T
11189	41557	A	11256	82	159	
11190	41558	A	11257	820	1358	HTDGLVWMPFLFVSFPSNSQD RQLQVCWRLLLEVHSRPCFPGY QQRWLQNNRY/SVNRKCCCLIV PLEVLSQRSTHQHVGEWLCLL GRKFPA GMEACTAMLCSSSVL EAATLSFSVQHR ACTGGS*KPQ QGRVYPSEGREHNGAAAFGPF CSSECPASCPD PGTQPCAPGTYI PFFSCQT
11191	41559	A	11258	2435	3261	QVRGYRCRFVTWVNCMSLRFG VQRIPSPSLTGTQPPVGAD*HLT RPGTPLR*N FQRNDQAVTF AVH \\HIHFVQPLLLIPMQTGSGVDLR QTPTDLQLRVLT VRRKTNKQK GHPHRNPICMSPSSKTKARQAN IQIQEIQRTPQRYSSRRATPRHII VRFTKVEMKEKKLRAAREKGR VTHKGKPIRLTVDLLAETLQAR REWGPIFNILKEKNFQPRISYPA KLNFISEEEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNQ YQPLQNHAKL

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11192	41560	A	11260	1439	2544	VSSTTKEKALSVPPrWCILQKK NPPNHQPVSLPEVFLPQILKFSG PPHWRRIEYKVMRLNIGDM KTKKKMLEKYEQLEIRHQQS RT*KAVCCIT*LSRHIILLGQAPL VQQSM*QPESHQVNPPTS YGIHQTPKLS*IGIK*RPWIM/MSEV KGYKVGNNFFAKAPNRPPL KPRQTGSGVDLQQTADLQLR VLTVRRNTNKQKGHPHQNPICT SPSSKTKEVENLEKRLDKWLTR LTNVEKSLNDLMELKTMAREL HDEGTSFSSQFDQLEERVPMVE DQMNMKQEEKFREKRMKRN EQSLQEIRDYVKRPNRLRIGVPE SDGENGTLENTLQDIIQENFPS LARQANIQIEIQRMPPQR
11193	41561	A	11261	2772	3111	QSGPSAAGLLEFAGGPLQTLFA WVSAAEVVGKCKGSGSSLS*PK KGVMDGTWKIGSLPPEYCAFP T*KNAGP/LRLYPTPGSEGPTPT ESP*/FASTAVGDQATARQQRGW GRGARH
11194	41562	A	11262	248	597	DRCPAAWDRHPAGIQSSRREPS KATWTLRSKLSVQDGRDSSL RLNCKVAARLGAGHPMLRLG LRC*YPGKQGLEWTSSKLQQT C*H*GS*LLKGLTNRKDIH SKTPSVRHYHQR
11195	41563	B	11263	1	2250	
11196	41564	A	11264	1298	1681	GVSVP LLWGASQLGYLGVM DPLAEAVCPFSDLQLHSGRT STVFKAALGQSGAHCP ERCVSQAQ*AD*RALREHK Q*FGSTLCGPVMVVAME LGSSTMVELVSSPANS VKVFLFLHIFSSTCCFLTFS
11197	41565	A	11265	1272	1497	SGLLPIKVAFTKPQFLFILLRIWL *RGYVFCSWKVTTPREQPCIT DGYQIFIFMQKTLSCLSILGKRT MSLMQ
11198	41566	A	11266	1	1071	
11199	41567	A	11267	788	1286	
11200	41568	A	11268	3	455	
11201	41569	A	11269	1	711	
11202	41570	A	11270	225	525	GGGENFSYPWYLLVGCWFSS SPIVPDVPPFSLLLPAQKKK PAPPK\PEPKPKAPAKKGEK VPGKKGKADAGKEGNNPAENG DAKTAQAQKAEGAGDAK

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11203	41571	A	11271	914	1261	TAKPKTNWCCRAPTSRLASTFA TMPFKKAECVGDAHPATVKDE PQRISARLS\AKPAPPKPEPKK KAPAKKGEKVPKGKKKGKADA GKEG\NNPAN\GDAKTDQAQK A\EGA\GDAK
11204	41572	A	11272	3	359	
11205	41573	A	11273	440	642	WKAEREEIEPR/PKKAPAKKGE KVPKGKKKGKAEAGQDGNPTE NGDAKTDQGQKAEGAGDAKR TVSHQN
11206	41574	A	11274	499	723	
11207	41575	A	11275	147	459	STYVPLPSPSSMPKRKAEGHA MGDKAKVKDEPQRRFARLS\A KPAPPKPEPKPKAPAKKGEKV PKGKKKGKAD\AGKEGE*PLQKN GDAKTDQAQKA\EGA\GDAK
11208	41576	B	11276	179	400	
11209	41577	A	11277	24	601	
11210	41578	A	11278	266	441	
11211	41579	A	11279	17	570	HQPKKDLTGFKWPRYIRLQR QRAILYKRLKVHLAINQFTQAL ARQTATQLLKLAKYRPETKQ EKKQRLARA EKKAAGKGDVP TKRPPVLRAGVNTVTTLVENK KAQLVVIAHDVGPIELVVFLPA LCRKMGPVYCQIKGKARLG\R LVHRK\TCTTCRFTQ\VNS\EDK GALAK\LVEAIRTNYNDRYDEI R\RHWWGNVLGPKSVARIAKL\ EKAKAKELAH*TGGSYQDQLQ
11212	41580	A	11280	175	289	RPCVKESGKPHLKSSTMWTTL KLLRI*PRRTTCSPLS
11213	41581	A	11281	205	361	
11214	41582	A	11282	144	396	CLEVLHKILFFEMESHSVTQAG VQWRDLGSLQPLPPG\SSNSPTS ASQVAGIRSMRQKGRANFFVFL VEMGFHHVQGADLELLTL
11215	41583	A	11283	241	550	
11216	41584	A	11284	2	106	
11217	41585	A	11285	2	447	PPLSRLLCPRHPHSGWPEGYSPE HLRCGLRSGTLRSRQALHCQVS SNP*PPSLWF*GCGNVL*ELCLF VLPVSVNLYQVLLSEIWEFHRT

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11218	41586	A	11286	1	2172	PAGRCRTAWAVAAQQLMLSA ALRTLKHVLYYSRQCLMVSRN LGSVGYDPNEKTFDKILVANRG EIACRVIRTCKKMGIKTVAIHSD VDASSVHVKMADEAVCVGPAP TSKSYLNMDAIMEAIKKTRAQ AVHPGYGFLSENKEFARCLAAE DVVFIGPDTHAIQAMGDKIESK LLAKKAEVNTIPGFDGVVKDA EEAVRIAREIGYPVMIKASAGG GGKGMRIAWDDEETRDGFRLS SQEAASSFGDDRLLIEKFIDNPR HIEIQVLGDKHGNALWLNRECE SIQRRNQKVVEEAPSIFLDAETR RAMGEQAVALARAVKYSSAGT VEFLVDSKKNFYFLEMNTRLQ VEHPVTECITGLDLVQEMIRVA KGYPLRHKQADIRINGWAVEC RVYAEDPYKSFGPLSIGRLSQY QEPLHLPGVRVDSGIQPGSDISI YYDPMISKLITYGSDRTEALKR MADALDNYVIRGVTHNIALLR EVIIN\SRFGKRNLT*FLASKGF PEAFKGHLLTKS\EKTQFLAIAS\ SLFVAFQLRAQHFAQNSRMPVI KPDIANWELSVKLHDKVHTVV ASNNGSVFSVEVDGSKLNVST WNLASPLLSVSVDEHSEGLFQ CLSREAGGNMSIQFLGTVYKV NILTRLAAELNKFMLEKVTEDT SSVLRSPMPGVVVAVSVKPGD AVAEGQEICVIEAMKMQNSMT
11219	41587	A	11287	62	2600	
11220	41588	C	11288	277	508	
11221	41589	B	11289	94	1440	
11222	41590	A	11290	57	237	FLHAENKAHRPGISLCGLRAQP RQPASRHAW*SMRSEQRPWLT ASGRSSGQTRSSRSLG

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11223	41591	A	11291	3	1968	EFDYSEDKSSWDNQENPPPTK KIGKKPVAKMPLRRPKMKKTP EKLDNTPASPPRSPAEPNDIPIA KGYTTFDIDKWDDPNFNPFSST SKMQESP KLPQQSYNFDPTCD ESVDPFKTSSKTPSSPSKSPASFE IPASAMEANGVDGDGLNKPAAK KKKTPLKTDTRVKKSPKRSPL SDPPSQDPTPAATPETPPVISAV VHATDEEKLAVTNQKWTCMT VDLEADKQDYPQPSDLSTFVNE TKFSSPTEELDYRNSYEIEYME KIGSSLPQDDAPKKQALYLMF DTSQESPVKSSPVRMSSEPTPCS GS\SFEETEALVNTAAKNQHPV PRGLAPNQESHQVPEKSSQKE LEAMGLGTPSEAIEITAPEGSA SADALLSRLAHPVSLCG\ALDY LEPDLAEKNPPLFAQKLQREA\ VHPTDVSI\SKTALYSRIRTEVE KPAGLLFQQPD\DSALQIARAE I\TKEREVSEWKDKYEESR\RE VMEMRKIVA EYEKTIAQMIEDE QREKSVSHQTVQQLVLEKEQA LADLNSVEKSLADLFRRYEKM KEVLEGFRKNEEV LKRC AQEY LSRVKKEEQRYQALKVHAEEK LDRANA EIAQVRGKAQQEQAA HQASLRKEQLRVDALERTLEQ KNKEIEELTKICDELIAKMGKS
11224	41592	A	11292	63	2203	
11225	41593	A	11293	27	586	
11226	41594	A	11294	89	288	
11227	41595	A	11295	1	522	HERFETTYFKKFP\GYVVTGDG CQRDQDGYWITGRIDDMNLV SGHLLSTA EVESALVEH*RLLQ EA\AVVGHPHPCEGVNASYCFV TLCDGHTFSPKLTEELKKA\VM RKRLAPFATPDYIQNAPGLPKT\ RSGKIMRRVLRKIAQNDHDLG DMSTVADPS\VISHLFSHRCLTI
11228	41596	A	11296	2	569	
11229	41597	B	11297	1	990	
11230	41598	A	11298	1	252	
11231	41599	A	11299	39	174	RHIYSSNEVH*KEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEE EEEEEIPLSSL

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11232	41600	A	11300	16	379	ILDTSPMRWTQKNFSMILAQPE QQCKTLSQNKNKDRRIKKKEE KKKKKKKKKKKKKKKKKKKKK KKKKK*EKEKEKEKEKKKEKE EEKKK/QEEEEEEEEEEEEEEEE EEEEEEEEEEEEERRR
11233	41601	A	11301	1	249	
11234	41602	A	11302	1	353	
11235	41603	A	11303	1	847	
11236	41604	A	11304	3	224	QEKRRKEKKK\EEEEEEEEEE EEEEEEEEEEEEKKKKKKKKKK KKKKKKKKKKKKKKKKKKKKK KKKKKKKKKKGRKTDLAVDPV
11237	41605	A	11305	1	417	
11238	41606	A	11306	1	1314	
11239	41607	B	11307	1	133	
11240	41608	A	11308	45	266	
11241	41609	A	11309	35	313	FLQMEDTYIVTKLLLLRFAWL YLDLVFVLI*YRKKRRKKRKK KEKEKEKEKKKKKKKKKKKKK KKKKKKKKKKKKRKKEMALQS CSLWYLYA
11242	41610	C	11310	240	391	
11243	41611	A	11311	1	579	
11244	41612	A	11312	141	410	PEPILTMESKGMWQLFELTL/H NSKVNTLSKELHSEFSEVMNEI WASDQIRSAVLISKPGCFIAGA DINMLAACKDPSRSNTAITRKH RE
11245	41613	A	11313	1	358	KWFTPMEFEIKGGYA*SKNWR LSVRCGGWPLRRLMEEGSLPNP SRIYYRNKLRILKSQNNSSVDPC MRNLDECEVCRDGWELFCCDT CSRVFHDDCHIPPVESEKMES AGSQCCQES
11246	41614	A	11314	1	921	
11247	41615	A	11315	108	2765	

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11248	41616	A	11316	98	2418	AKLMAQQGQQGQMASGDSNL NFRMVAEIQNVEGQNLQEVC PEPIFRFFRENKVEIASAITRPF FLMGLRDRSFISEQMYEHFQEA FRNLVPVTRVMYCVLSELEKTF GWSHLEALFSRINLMAYPDLNE IYRSFQNVCYEHSPLQMNNVN DLEDPRLLPYGKQENSNACHE MDDIAVPQEALSSSARCEPGFS SESCEQLALPKAGGGDAEDAPS LLPVSKLAIQIDEGESEEMP LPYDTEETFDLKTQVTNEGEP EKGLCLLPGEEGESDDCSEMC DGEERQEASSLARRGSVSEL ENHPMNEEGESEELASSLLYDN VPGAEQSAYENEKCSVMCFS EEVPGSPEARTESDQACGMDT VDIANNSTLGKPKRKRKRKR HGWSRMRMRQKNSQQNDNS KADGQVVSSEKKANVNLKDL KIRGRKRKPGTRFTQSDRAAQ KRVRSRARKHKDETVDFAKAP LLPVTGCGVKGILHKKKLQGGI LVKCIQTEDGKWFTPTFEIKG GHARSKNWRLSVRCGGWPLR WLMENGFLPDPRJRYRKKRI LKSQNNSSVPCMRNLDECEV CRDGGELFCCDTCSRVFHEDCH IPPVEAERTPWNCIFCRMKESPG SQCCQSEVLERQMCPEEQLK CEFLLLKVYCCSESSFFAKIPYY YYIREACQGLKEPMWLDKIKK
11249	41617	A	11317	1	1210	
11250	41618	A	11318	1	743	MRYKKEQPLFLPKYDLGADAA ILQPQEEDCGSTQVRGGHRTK TEETGLLVTSLNQGIKPHDSVT KLLSPQRSSVLFLLLITSGVHTD SSKAVLESRRSLGYEASFLEYF QSFYKLPVDRLYAWHCSDHR NTTVTAINTDRPGLLTLSLTVTI GQGSKKAPSGFSHISPAPTVKQ QPILCDDRDFSPSSFPSTNTPSQF ATNEVLTTGPPPGAG/CCQYSTI TRKTGPNCQAGGCPGGARPAK
11251	41619	A	11319	314	486	
11252	41620	A	11320	3	122	
11253	41621	A	11321	1	289	
11254	41622	A	11322	1	399	
11255	41623	A	11323	3	259	

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11256	41624	A	11324	1	369	MPATWEAEARESHKREFETHL/ VQHSETPSEKEEE\EEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEE EEEGEEEEEEEEEEEEEEEEEEEEEE GEEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEE EEEEEGEEEEEEEEEEEEEEEEEEEE EEGEEEEEEEEEEEEEEFEDEEEEE
11257	41625	B	11325	1	441	
11258	41626	A	11326	1	267	
11259	41627	B	11327	1	234	
11260	41628	A	11328	1	383	MVRPFLYKKIKEEEEEEEEEEEEE EEEEGEEEEEEEEEEEEEEEEEEEE EGEEEEEEEEEEEEEEEEEEEEEDKD DEEER/EKKEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKKHSL*DPD LGEKENKGQRKRKLARGTSQP SLSPGGSDPLGA
11261	41629	A	11329	305	625	VAPGDRHAFPLAPSGLSPELTLP QTQCCAQATVQGLEGTRSWSQ SGTSSLSPWSHTSLRRRRKEEG EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEE/IEEGEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEAAKTQ
11262	41630	A	11330	294	501	AFDKQPRGRGRVVKEEVLKKK KKEEEKKEEGEEEEEEEEEEEEEE E/EEDEEEEEEEEEEEEEEEEEEE EEEEEEEE
11263	41631	C	11331	618	966	
11264	41632	B	11332	1	332	
11265	41633	A	11333	1	705	
11266	41634	A	11334	1	417	
11267	41635	A	11335	1	639	
11268	41636	A	11336	2	2347	LMLVVIFNGTERIEDLRKPPSFD AILGGGLRVLFFQNEAHPPFAS WRNNEEARTDRPSQQLRSLNG KWRLMRYFLLTHLCETLVKVK DAEDQLGARVGYIELDLNSGKI LESFRPEERFPMSTFKGLLCG AVLSRIDAGQEQLGRRIHYSQN DLGEYSPVTEKHLTDGMTVRE LCSAAITMSDNTAANLLTTIG GPNELTAFLHNMGDHVTSLDR SEPELNEAIPNDERDTRCLGQW QQRSQTINWPTTTTLP
11269	41637	A	11337	56	243	YSCLMFPQDGE*LEKEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEN

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11270	41638	A	11338	1	503	MKHQHFALLVPEKFLIAQSTAS RVDRRQIWRDVSSERGEISQCL KVGTSLSNSTDVSAVEAVRATV LGSGTLTPTVLRNAGPYTRIST VPACLLGQEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEK/EEEE/EEE EEEEEEEEEEEEEEEEEEEEEEEE EEGEEEEERRKS
11271	41639	A	11339	1	651	
11272	41640	A	11340	1	2184	MNIDANIPNKILENRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRTKDKNCMIISIDAEK AFDKIQQCFMLETNLKLGIGGT YLKIIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIRQEKEIKGVQLGKE EVKLSLFADDMIVYLENPIVSA QHLLKLISNFSKVSGYKINVQK SQAFLYTNNRQTENQIMSELPF TIASKRIKYRGIQLTRDLKDLFK ENDKPLLKEIKED/DKEMEEHS MLMGRKNQYRENSHAAQELE KNYFKVHMEPKKSPHYQVNP PKEQSGRHHVT*LQTLQGYSN QNSMVLVPKQTYRSMEQNRSL RNNATYLQLSDL*QTQEKQAM GKGFP**MVLGKLASHM*KPE TGSLPYTLYKNQFKVD*RLKR* T*NHKNQRRKPRHYHSGHRHG QGLHV*NTKINGNKNQN*QMG SN*TKELLHSKRNYRQSDQATY KMGENFHNLLIRQRANIQNVQ* TQTNLQEKNKQPHQKVGEHGE QTLLKRRHLCSQKTHEK\NSPSL AIREMQIKTTMRYHLTPVRMAI IKKSGNSRKHIQKKEEEEEEEEA EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEKCSLKHTEAPCVKGIETIFW NKFSLCDITKSYLSGVQKLEER AHKVKLALKFKKEIKMALHGG
11273	41641	A	11341	1	870	
11274	41642	A	11342	2	259	GSTISCARCAELRGSASRFRPLP AAAMKWMFKEDHSLEHRCVE SAKIRAKYPDRVP/LTMGQLYE KEKDEDGFLCVAYSGENTFGF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
11275	41643	A	11343	1	461	GCRRCRRRCCCARCAELRGS ASRFRPLPAAAMKWMFKEDR WLEHRCVESAK\IRAKYPDRVP VIVEK/VSQGSQIVDIDKRKYL VPSDITVAQFMWIIRKRIQLPSE KA\IFLFVDKTPQSSLTMGQLY EKEK\DEDGFLYVA\YSGRGTLF
11276	41644	A	11344	1	966	
11277	41645	A	11345	1	1037	RPPFPVPGVQKCPLPTRGGLHIG RWLRDRAGPPEAQDGTGGRSR SRRRPPALPNSRSPVASGREM VVLSPAEVTIVILLDIEGTTTT IAFVKG/DILFPYIERKMLK\EYL QTHW\EEEEFQ\QDVSLFEGNK A\EEDAHLDG\AVPIPGKHLGIG VDD\LQQMIQAVVDNVCWQM SLDRKTTALK\QLQGH\MWRAA FTAGRMK\AEFFADVPA\VR\K WREAGMKVYIYSSGSVEAQKL LFGHSTEGDILEL\VDGH\DTKI GHKRRRVKVTRK\IADSI\GCST\ NKHVFVWTDVTSRRASAGLRE AGCCTLA V\VRPG\NAGINR*L RKTYYSLITSFQWNYYLPSS
11278	41646	A	11346	346	858	
11279	41647	A	11347	1	234	
11280	41648	A	11348	1	1696	
11281	41649	A	11349	1	234	
11282	41650	A	11350	1	1696	
11283	41651	A	11351	1	211	
11284	41652	A	11352	1	417	
11285	41653	A	11353	1	1458	
11286	41654	A	11354	219	329	
11287	41655	A	11355	132	451	
11288	41656	A	11356	1	996	
11289	41657	A	11357	1	867	MARLWGALSLWPLWAAVPWG GAAAVGVRACSSTAAPDGVEG PALRRSYWRHLRRLVLGPPEPP FSHVCQVGDPVLRGVAAPVER AQLGGPELQRLTQRLVQVMRR RRCVGLSAPQLGVPRQVLAL PEALCRECPPRQALRQMEPFP LRVFNPSLRVLDSRLVTFPEG CESVAGFLACVPRFQAVQISGL DPNGEQVWQASGWAARIQH EMDHLQGCLFIDKMSRTFTN VYWMKVND*SFATGAEDSGY QDANTFTLSWANLTWHQLGW LAYDRKLCQGMAD
11290	41658	A	11358	3	226	
11291	41659	A	11359	1	756	